

# **Bay Area Air Quality Management District**

939 Ellis Street  
San Francisco, CA 94109  
(415) 771-6000

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## **Final**

# **MAJOR FACILITY REVIEW PERMIT**

**Issued To:**  
**Valero Refining Co. - California**  
**Facility #B2626**

**Facility Address:**  
3400 East Second Street  
Benicia, CA 94510-1097

**Mailing Address:**  
3400 East Second Street  
Benicia, CA 94510-1097

**Responsible Official**  
Douglas W. Comeau  
Vice President and General Manager  
(707) 745-7724

**Facility Contact**  
Clark Hopper,  
Environmental Manager  
(707) 745-7976

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**Type of Facility:** Petroleum Refining  
**Primary SIC:** 2911  
**Product:** Petroleum Refining

**BAAQMD Engineering Division Contact:**  
Arthur P. Valla

## **ISSUED BY THE BAY AREA AIR QUALITY MANAGEMENT DISTRICT**

Signed by Brian Bateman for Jack P. Broadbent  
Jack P. Broadbent, Executive Officer/Air Pollution Control Officer

May 27, 2004  
Date

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## I. STANDARD CONDITIONS

### A. Administrative Requirements

The permit holder shall comply with all applicable requirements in the following regulations:

BAAQMD Regulation 1 - General Provisions and Definitions

(as amended by the District Board on 5/2/01);

SIP Regulation 1 - General Provisions and Definitions

(as approved by EPA through 10/7/98);

BAAQMD Regulation 2, Rule 1 - Permits, General Requirements

(as amended by the District Board on 8/1/01);

SIP Regulation 2, Rule 1 - Permits, General Requirements

(as approved by EPA through 11/1/89);

BAAQMD Regulation 2, Rule 2 - Permits, New Source Review

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 2 - Permits, New Source Review and Prevention of Significant Deterioration

(as approved by EPA through 6/15/94);

BAAQMD Regulation 2, Rule 4 - Permits, Emissions Banking

(as amended by the District Board on 5/17/00);

SIP Regulation 2, Rule 4 - Permits, Emissions Banking

(as approved by EPA through 6/15/94)

BAAQMD Regulation 2, Rule 6 - Permits, Major Facility Review

(as amended by the District Board on 5/2/01) And

SIP Regulation 2, Rule 6 – Permits, Major Facility Review

### B. Conditions to Implement Regulation 2, Rule 6, Major Facility Review

1. This Major Facility Review Permit was issued on December 1, 2003, and expires on November 30, 2008. The permit holder shall submit a complete application for renewal of this Major Facility Review Permit no later than May 31, 2008 and no earlier than November 30, 2007. **If a complete application for renewal has not been submitted in accordance with this deadline, the facility may not operate after November 30, 2008.** (Regulation 2-6-307, 404.2, & 409.6; MOP Volume II, Part 3, §4.2)
2. The permit holder shall comply with all conditions of this permit. The permit consists of this document and all appendices. Any non-compliance with the terms and conditions of this permit will constitute a violation of the law and will be grounds for enforcement action; permit termination, revocation and re-issuance, or modification; or denial of a permit renewal application. (Regulation 2-6-307; MOP Volume II, Part 3, §4.11)
3. In the event any enforcement action is brought as a result of a violation of any term or condition of this permit, the fact that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with such term or condition shall not be a defense to such enforcement action. (MOP Volume II, Part 3, §4.11)
4. This permit may be modified, revoked, reopened and reissued, or terminated for

## **I. Standard Conditions**

cause. (Regulation 2-6-307, 409.8, 415; MOP Volume II, Part 3, §4.11)

5. The filing of a request by the facility for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated non-compliance does not stay the applicability of any permit condition. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
6. This permit does not convey any property rights of any sort, or any exclusive privilege. (Regulation 2-6-409.7; MOP Volume II, Part 3, §4.11)
7. The permit holder shall supply within 30 days any information that the District requests in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. (Regulation 1-441, Regulation 2-6-409.4 & 501; MOP Volume II, Part 3, §4.11)
8. Any records required to be maintained pursuant to this permit which the permittee considers to contain proprietary or trade secret information shall be prominently designated as such. Copies of any such proprietary or trade secret information which are provided to the District shall be maintained by the District in a locked confidential file, provided, however, that requests from the public for the review of any such information shall be handled in accordance with the District's procedures set forth in Section 11 of the District's Administrative Code. (Regulation 2-6-419; MOP Volume II, Part 3, §4.11)
9. Proprietary or trade secret information provided to EPA will be subject to the requirements of 40 CFR Part 2, Subpart B - Public Information, Confidentiality of Business Information. (40 CFR Part 2)
10. The emissions inventory submitted with the application for this Major Facility Review Permit is an estimate of actual emissions or the potential to emit for the time period stated and is included only as one means of determining applicable requirements for emission sources. It does not establish, or constitute a basis for establishing, any new emission limitations. (MOP Volume II, Part 3, §4.11)
11. The responsible official shall certify all documents submitted by the facility pursuant to the major facility review permit. The certification shall state that based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete. The certifications shall be signed by a responsible official for the facility.

### **C. Requirement to Pay Fees**

The permit holder shall pay annual fees in accordance with District Regulation 3, including Schedule P. (Regulation 2-6-402 & 409.13, Regulation 3; MOP Volume II, Part 3, §4.12)

### **D. Inspection and Entry**

Access to Facility: The permit holder shall provide reasonable access to the facility and equipment which is subject to this permit to the APCO and/or to his or her designee. (Regulation 1-440, Regulation 2-6-409.3; MOP Volume II, Part 3, §4.14)

### **E. Records**

1. The permit holder must provide any information, records, and reports requested or

## **I. Standard Conditions**

- specified by the APCO. (Regulation 1-441, Regulation 2-6-409.4)
2. Notwithstanding the specific wording in any requirement, all records for federally enforceable requirements shall be maintained for at least five years from the date of creation of the record. (Regulation 2-6-501, Regulation 3; MOP Volume II, Part 3, §4.7)

## **F. Monitoring Reports**

Reports of all required monitoring must be submitted to the District at least once every six months, except where an applicable requirement specifies more frequent reporting. The first reporting period for this permit shall be December 1, 2003, to May 31, 2004. The second reporting period for this permit shall be June 1, 2004, to June 30, 2004. Subsequent reports shall be for the following periods: July 1st through December 31st and January 1st through June 30th. All reports are due on the last day of the month after the end of the reporting period. All instances of non-compliance shall be clearly identified in these reports. The reports shall be certified by the responsible official as true, accurate, and complete. In addition, all instances of non-compliance with the permit shall be reported in writing to the District's Compliance and Enforcement Division within 10 calendar days of the discovery of the incident. Within 30 calendar days of the discovery of any incident of non-compliance, the facility shall submit a written report including the probable cause of non-compliance and any corrective or preventative actions. The reports shall be sent to the following address:

Director of Compliance and Enforcement  
Bay Area Air Quality Management District  
939 Ellis Street  
San Francisco, CA 94109  
Attn: Title V Reports

(Regulation 2-6-502, Regulation 3; MOP Volume II, Part 3, §4.7)

## **G. Compliance Certification**

Compliance certifications shall be submitted annually by the responsible official of this facility to the Bay Area Air Quality Management District and to the Environmental Protection Agency. The first certification period shall be December 1, 2003, to November 30, 2004. The second certification period shall be December 1, 2004, to December 31, 2004. Subsequent certification periods will be January 1st to December 31st. All compliance certifications are due on the last day of the month after the end of the certification period. The certification must list each applicable requirement, the compliance status, whether compliance was continuous or intermittent, the method used to determine compliance, and any other specific information required by the permit. The permit holder may satisfy this requirement through submittal of District-generated Compliance Certification forms. The certification should be directed to the District's Compliance and Enforcement Division at the address above, and a copy of the certification shall be sent to the Environmental Protection Agency at the following address:

Director of the Air Division  
USEPA, Region IX  
75 Hawthorne Street

## **I. Standard Conditions**

San Francisco, CA 94105

Attention: Air-3

(MOP Volume II, Part 3, §4.5 and 4.15)

### **H. Emergency Provisions**

1. The permit holder may seek relief from enforcement action in the event of a breakdown, as defined by Regulation 1-208 of the District's Rules and Regulations, by following the procedures contained in Regulations 1-431 and 1-432. The District will thereafter determine whether breakdown relief will be granted in accordance with Regulation 1-433. (MOP Volume II, Part 3, §4.8)
2. The permit holder may seek relief from enforcement action for a violation of any of the terms and conditions of this permit by applying to the District's Hearing Board for a variance pursuant to Health and Safety Code Section 42350. The Hearing Board will determine after notice and hearing whether variance relief should be granted in accordance with the procedures and standards set forth in Health and Safety Code Section 42350 et seq. (MOP Volume II, Part 3, §4.8)
3. The granting by the District of breakdown relief or the issuance by the Hearing Board of a variance will not provide relief from federal enforcement. (MOP Volume II, Part 3, §4.8)

### **I. Severability**

In the event that any provision of this permit is invalidated by a court or tribunal of competent jurisdiction, or by the Administrator of the EPA, all remaining portions of the permit shall remain in full force and effect. (Regulation 2-6-409.5; MOP Volume II, Part 3, §4.10)

### **J. Miscellaneous Conditions**

1. In Table II-A, for each source with a capacity identified as a firm limit, the maximum capacity for each source as shown in Table II-A is the maximum allowable capacity. Exceedance of the maximum allowable capacity for any source is a violation of Regulation 2, Rule 1, Section 301. (Regulation 2-1-301)
2. In Table II-A, for each source with a capacity identified as a grandfathered limit, all capacities as shown in Table II-A is based upon District records at the time of the MFR permit issuance. The facility must report any exceedance of these limits following the procedures in Section I.F. This reporting requirement is intended to facilitate a determination of whether a modification has occurred as defined in Regulation 2-1-234.3. The throughput limits for grandfathered sources are for reporting purposes only. Exceedance of this limit does not establish a presumption that a modification has occurred, nor does compliance with the limit establish a presumption that a modification has not occurred. (Regulation 2-1-234.3)

### **K. Accidental Release**

This facility is subject to 40 CFR Part 68, Chemical Accident Prevention Provisions. The permit holder shall submit a risk management plan (RMP) by the date specified in §68.10.

## **I. Standard Conditions**

The permit holder shall also certify compliance with the requirements of Part 68 as part of the annual compliance certification, as required by Regulation 2, Rule 6. (40 CFR Part 68, Regulation 2, Rule 6)

## II. EQUIPMENT

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-1	Claus - modified 3 stage; Burns Multi-fuel; (SULFUR PLANT 'A' TRAIN ACID GAS BURNER, F-1301A)	Burners: John Zink Co.	Burners (4): DB-0-24	160 short tons/day	58,400 short tons/year (Grandfathered Source)
S-2	Claus - modified 3 stage; Burns Multi-fuel; (SULFUR PLANT 'B' TRAIN ACID GAS BURNER, F-1301B)	Burners: John Zink Co.	Burners (4): DB-0-24	160 short tons/day	58,400 short tons/year (Grandfathered Source)
S-3	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, CRUDE PREHEAT, F-101)	Burners: John Zink Co.	Burners (3): YS-30	83.88 ktherms/day fuel gas (349.5 MMBTU/hr) 43.2 ktherms/day CO flue gas (179.8 MMBTU/hr)	30.6 MM therms/year fuel gas (349.5 MMBTU/hr) 15.7 MM therms/year CO flue gas (179.8 MMBTU/hr) (Grandfathered Source)
S-4	Industrial Boiler - Other, Carbon monoxide, Refinery make gas (RMG) (PROCESS FURNACE, REDUCED CRUDE PREHEAT, F-102)	Burners: John Zink Co.	Burners (3): YS-22	40.75 ktherms/day fuel gas (169.8 MMBTU/hr) 21.45 Ktherms/day CO flue gas (89.4 MMBTU/hr)	14.9 MMtherms/year fuel gas (169.8 MMBTU/hr) 7.8 MM therms/year CO flue gas (89.4 MMBTU/hr) (Grandfathered Source)
S-5	Fluid cat cracker, FCC fresh feed, (FCCU REGENERATOR R-702)	Custom	N/A	77.2 kBBL/day fresh feed (actual)	27.0 MMBBL/year fresh feed (actual 180 day average. of 74.1 kbbbl/day) (Grandfathered Source)
S-6	Fluid coking - general, Coker fresh feed, (COKER BURNER R-902)	ER&E	N/A	39.6 kBBL/day fresh feed (design safety valve limit)	14.5 MMBBL/year fresh feed (39.6 kBBL/day) (Grandfathered Source)
S-7	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, JET FUEL HYDROFINING, F-103)	Burners: John Zink Co.	Burners (4): HEVD-18	12.72 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 53	4.64 MMtherms/year (annual throughput is based on an demonstrated actual hourly maximum firing rate of 53



## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	MMBTU/hour) (Grandfathered Source)
<b>S-8</b>	Fluid coking - transportation, Coker product, (Coke Silos Primary Scrubber, Cyc 1901)	GE ESI	Model #35; Series 412M	2400 tons/day (based on 100 tons/hour)	613.2 ktons/year. (based on 70 tons/hour) (Grandfathered Source)
<b>S-9</b>	Blow-down system - w/o control, Crude oil (Vapor Recovery System)	Custom	N/A	135 kBBL/day permit limit	49.3 MMBBL/year (135 kbbbl/day ) (Grandfathered Source)
<b>S-10</b>	Loading - storage tank, Minerals -other/not spec, (CATALYST RAILCAR UNLOADING BAG FILTER 2701)	Flexclean	84 CT 18	240 tons/day (based on 10 tons/hour)	1825 tons/year (based on an average of 5 tons/day) (Grandfathered Source)
<b>S-11</b>	Storage, Carbon black, (Activated Carbon Bin TK-2061)	Custom	N/A	2.4 tons/day (based on 0.1 tons/hr)	292 tons/12-months (Condition #9897) (New Source Review)
<b>S-12</b>	Storage - contained, Lime, (Lime Silo TK- 2303)	Custom	N/A		550 tons (actual) (Grandfathered Source)
<b>S-13</b>	Process Heater/Furnace, Refinery make gas (RMG) (Direct Fired Air Heater, Aux. Burner, F-702)	John Zink Co.	Burner (1): Z-38	14.4 ktherms/day (daily capacity is based on a burner design value of 60 MMBTU/hr)	Startup burner: No annual throughput limit is needed. (Grandfathered Source)
<b>S-16</b>	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (ACID GAS FLARE)	John Zink Co.	16" tip	0.084 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.35 MMBTU/hour)	30.66 ktherms/year (based on actual hourly maximum firing rate of 0.35 MMBTU/hour) Pilot gas only (Grandfathered Source)
<b>S-17</b>	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (BUTANE FLARE, ST-1701)	John Zink Co.	Burners (2): STF- LH-127-30HF	0.024 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 0.10 MMBTU/hour)	8.76 ktherms/year (based on actual hourly max firing rate of 0.1 MMBTU/hour) Pilot gas only (Grandfathered Source)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-18	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (SOUTH FLARE, ST-2101)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-19	Refinery Waste Gas Flare, Natural gas, Refinery make gas (RMG) (NORTH FLARE ST-2103)	John Zinc Co.	Burner: STF-SAS-1	0.336 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 1.40 MMBTU/hour)	122.6 ktherms/year (based on actual hourly maximum firing rate of 1.4 MM BTU/hour) Pilot gas only (Grandfathered Source)
S-20	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, NAPHTHA HYDROFINING, F-104)	Custom	Burners (6): John Zink VYD-18	14.88 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 62 MM/BTU/hour) (Reg 9 Rule 10 Compliance Plan)	5.43 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 62 MMBTU/hour) (Grandfathered Source)
S-21	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-301)	Custom	Burners: 980	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	106 MMtherms/365-days (combined w/S-22) (average of 605 MMBTU/hour per furnace) (Condition #10574-37) (New Source Review)
S-22	Furnace - Other, Refinery make gas (RMG) (Hydrogen Reformer Furnace, F-351)	Custom	Burners: 980	147.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum	106 MMtherms/365-days (combined w/S-21) (average of 605 MMBTU/hour per furnace)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				firing rate of 614 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	(Condition #10574-37) (New Source Review)
S-23	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS OIL HYDROCRACKING, F-401)	Custom	Burners (20): John Zink Lonox LNV-PC-70	200 MMBTU/hour for any 1 hour period; 44.4 ktherms/day (average of 185 MMBTU/hour) (Condo. #14318) (Regulation 9, Rule 10 Compliance Plan)	16.21 MMtherms/year (average of 185 MMBTU/hour) (New Source Review)
S-24	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, CAT FEED HYDROFINING, F-601)	Custom	Burner (1): Exxon 50J	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour) (Grandfathered Source)
S-25	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, CAT FEED PREHEAT, F-701)	Custom	Burners (20): John Zink DBA-22	55.2 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	20.15 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 230 MMBTU/hour) (Grandfathered Source)
S-26	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, HCN HYDROFINING, F-801, 33 MMBTU/hr)	Custom	Burners (4): John Zink VPMR-20	7.92 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 33	2.89 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 33 MMBTU/hour)

## II. Equipment

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S-#	Description	Make or Type	Model	Capacity	Throughput
				MMBTU/hour) (Regulation 9, Rule 10 Compliance Plan)	(Grandfathered Source)
<b>S-27</b>	Waste gases; Other/not specified, Waste gases, Sodium hydroxide, 7 days/wk, 10 hrs/day, 52 wks/year (PFR REGENERATION FACILITIES)	Custom	N/A	22.56 MMSCF/day (based on 0.94 MMSCF/hour)	255.5 MMSCF/year (based on 70 kscf/hour for 10 hour/day – 365 day/year.) (Grandfathered Source)
<b>S-29</b>	Cooling tower, Fresh water, Water - process, other/not spec, (COOLING TOWER)	Deflon Anderson	5 DOP 4248-2615031 (5 cells)	85.5 MMgal/day circulation rate (based on 59.4 kgal/min)	31,220 MMgal/year (based on –85.5 MMgal/day circulation rate) (Grandfathered Source)
<b>S-30</b>	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR PREHEAT, F-2901)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-31, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
<b>S-31</b>	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2902)	Custom	Burners (12): John Zink HEVR-20P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-32 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
<b>S-32</b>	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2903)	Custom	Burners (9): John Zink HEVR-22P	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-31 and S-33 (average of 463 MMBTU/hour) (Grandfathered Source)
<b>S-33</b>	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, PFR REHEAT, F-2904)	Custom	Burners (7): John Zink HEVR-22	[Sources 30-33 must sum to 463 MMBTU/hour = 111.12 ktherms/day] (Regulation 9, Rule 10 Compliance Plan)	40.56 MMtherms/year combined with S-30, S-31 and S-32 (average of 463 MMBTU/hour) (Grandfathered Source)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				10 Compliance Plan)	
S-34	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2905)	Custom	Burners (9): John Zink HEVR-22P	17.76 ktherms/day (daily capacity is based on demonstrated actual hourly maximum firing rate of 74 MMBTU/hr) (9-10 Compliance Plan)	6.48 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 74 MMBTU/hour) (Grandfathered Source)
S-35	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, GAS HEATER, F-2906)	Custom	Burners (3): John Zink HEVR-16P	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (9-10 Compliance Plan)	1.23 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 14 MMBTU/hour) (Grandfathered Source)
S-36	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-701)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
S-37	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-702)	Custom	Burners (18): John Zink B-Y-2720	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (New Source Review)
S-38	Removed from Service				
S-39	Removed from Service				
S-40	Commercial/Institutional Boiler, Natural gas, Refinery make gas (RMG) (Utility Package	CE, Inc. Burners: Coen	34VP-14W; Burners: Daf-42	52.32 ktherms/day (based on a maximum	19.10 MMtherms/year (based on a maximum

## II. Equipment

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S-#	Description	Make or Type	Model	Capacity	Throughput
	Boiler, SG-2301, 218MMBTU/hr Horizontal force)		Low NOx	firing rate of 218 MMBTU/hour) (Condition #9296 and 9-10 Compliance Plan)	firing rate of 218 MMBTU/hour) (New Source Review)
<b>S-41</b>	Industrial Boiler - Other, Natural gas, Refinery make gas (RMG) (Steam Generator, SG-2302)	CE, Inc.	34VP-14W; Burners (2): Type SV	52.32 ktherms/day (based on a maximum firing rate of 218 MMBTU/hour) (9- 10 Compliance Plan)	19.10 MMtherms/year (based on a maximum firing rate of 218 MMBTU/hour) (Grandfathered Source)
<b>S-42</b>	Process Heater/Furnace, Refinery make gas (RMG) (PROCESS FURNACE, TREAT GAS PREHTR, F-1060)	Custom	Burner: John Zink Vyr-22	3.36 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate off 14.0 MMBTU/hour)	0.1 MMtherms/year (Permit ID# 30330-2) (Grandfathered Source)
<b>S-43</b>	Industrial Turbine (PROCESS GAS TURBINE, GT-401)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
<b>S-44</b>	Industrial Turbine (PROCESS GAS TURBINE, GT-701)	GE	Frame Size 3	36.58 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 152.4 MMBTU/hour)	12.35 MMtherms/year throughput is based on a design (seasonal average temperature) maximum firing rate of 141.0 MMBTU/hour) (Grandfathered Source)
<b>S-45</b>	Industrial Turbine (PROCESS GAS TURBINE GT-702)	GE	Frame Size 5	61.80 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 257.5	20.1 MMtherms/year (throughput is based on an demonstrated annualized daily firing rate of 229.4 MMBTU/hour)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				MMBTU/hour)	(Grandfathered Source)
<b>S-46</b>	Industrial Turbine (Process Gas Turbine, GT 1031 with steam injection)	GE	Frame Size 3	34.42 ktherms/day (daily capacity is based on a design (winter temperature) hourly maximum firing rate of 143.4 MMBTU/hour)	11.6 MMtherms/year (throughput is based on a design (seasonal average temperature) maximum firing rate of 132.4 MMBTU/hour) (Grandfathered Source)
<b>S-48</b>	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-1031)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing rate of 272.0 MMBTU/hour)	Excluded from Regulation 9, Rule 10 – 23.83 MMtherms/year (throughput is based on an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
<b>S-50</b>	Process Heater/Furnace, Refinery make gas (RMG) (AIR HEATER, CKR AUX. BURNER, F-901)	John Zink	Burner: Z-38E	10.08 ktherms/day (capacity is based on a demonstrated actual hourly maximum firing rate of 42 MMBTU/hour)	Start up burner: No annual throughput limit is needed. (Grandfathered Source)
<b>S-51</b>	HCU Total Feed Sandfilter, FIL 410A	N/A	N/A	40.0 kb/day (same as S-1003)	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source)
<b>S-52</b>	HCU Total Feed Sandfilter, FIL 410B	N/A	N/A	40.0 kb/day (same as S-1003)	14.6 MMBBL/year (average. of 40.0 kb/day) (Grandfathered Source)
<b>S-55</b>	Storage, Refinery sour waste water, (TK. 2801 SOUR WATER STORAGE)	N/A	N/A		5.61 MMBBL/year (based on 15.4 Kbbld) (Grandfathered Source)
<b>S-56</b>	Industrial Boiler - Other, Refinery make gas (RMG) (WASTE HEAT BOILER, SG-401)	Custom	Burners (2): John Zink Y3748	65.28 ktherms/day (daily capacity is based on maximum daily design firing	Excluded from Regulation 9, Rule 10 - 23.83 MMtherms/year (throughput is based on

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
				rate of 272.0 MMBTU/hour)	an annualized daily firing rate of 272.0 MMBTU/hour) (Grandfathered Source)
<b>S-57</b>	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK-1701, CRUDE OIL)	N/A	N/A	6300 kgal	51.65 MMBBL/year combined with S-58, 59, 60, 61 and 62 (based on combined total of 141.5 kBBL/day) (Grandfathered Source)
<b>S-58</b>	Tank, External Floating Roof, GOLD, Crude oil, , Welded, Pontoon (TK-1702, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 59, 60, 61 and 62 (based on combined total of 141.5 kBBL/day) (Grandfathered Source)
<b>S-59</b>	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK-1703, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 60, 61 and 62 (based on combined total of 141.5 kBBL/day) (Grandfathered Source)
<b>S-60</b>	Tank, External Floating Roof, GOLD, Bunker C fuel oil, Crude oil, Welded, Pontoon (TK 1704, CRUDE OIL)	N/A	N/A	6300 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 61 and 62 (based on combined total of 141.5 kBBL/day) (Grandfathered Source)
<b>S-61</b>	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK 1705, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 60 and 62 (based on combined total of 141.5



## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					kBBL/day) (Grandfathered Source)
<b>S-62</b>	Tank, External Floating Roof, GOLD, Crude oil, Welded, Pontoon (TK 1706, CRUDE OIL)	N/A	N/A	18900 kgal	51.65 MMBBL/year combined with S-57, 58, 59, 60 and 61 (based on combined total of 141.5 kBBL/day) (Grandfathered Source)
<b>S-63</b>	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1711, GASOLINE COMP)	N/A	N/A	10920 kgal	62.8 MMBBL/year combined with S-73, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
<b>S-64</b>	Tank, External Floating Roof, GREEN, Gas oil, Welded, Pontoon (TK-1712, GAS OIL)	N/A	N/A	13524 kgal	14.235 MMBBL/year combined with S-66, 67, 68 and 72 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
<b>S-66</b>	Tank, External Floating Roof, Distillate oil, Welded, Pontoon (TK-1714, GAS OIL)	N/A	N/A	8400 kgal	14.235 MMBBL/year combined with S-64, 67, 68 and 72 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
<b>S-67</b>	Tank, External Floating Roof, GREEN, Waste oil, Welded, Pontoon (TK-1715, GAS OIL)	N/A	N/A	9450 kgal	14.235 MMBBL/year combined with S-64, 66, 68 and 72 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
<b>S-68</b>	Tank, External Floating Roof, GREEN, Distillate oil, Welded, Pontoon (TK-1716, GAS OIL)	N/A	N/A	8820 kgal	14.235 MMBBL/year combined with S-64, 66, 67 and 72 (based on

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					combined total of 39.0 kBBL/day) (Grandfathered Source)
S-72	Tank, External Floating Roof, GREEN, Distillate oil, , Welded, Pontoon (TK-1720, GAS OIL)	N/A	N/A	15,204 kgal	14.235 MMBBL/year combined with S-64, 66, 67 and 68 (based on combined total of 39.0 kBBL/day) (Grandfathered Source)
S-73	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1733, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year combined with S-63, 74, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-74	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1734, ALKYLATE)	N/A	N/A	7980 kgal	62.8 MMBBL/year combined with S-63, 73, 75, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-75	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1736, GASOLINE COMP)	N/A	N/A	3360 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 76, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
S-76	Tank, External Floating Roof, GREEN, Gasoline - unleaded, Welded, Pontoon (TK-1737, GASOLINE COMP)	N/A	N/A	5880 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 78, 97 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-77	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1738, GASOLINE)	N/A	N/A	3360 kgal	7.4 MMBBL/365-day (MTBE production of 4.5 kBBBL/day plus 5.8 MMBBL/year of MTBE receipts through S-207 (Grandfathered Source)
S-78	Tank, External Floating Roof, GREEN, Alkylate, Welded, Pontoon (TK-1739, GASOLINE COMPONENT)	N/A	N/A	6804 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 97 and 163 (based on combined total of 172.1 kBBBL/day) (Grandfathered Source)
S-79	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1751, GASOLINE)	N/A	N/A	5040 kgal	49.275 MMBBL/year combined with S-80, 82, 83, 84, 86 and 92 (based on 135 kBBBL/day) (Grandfathered Source)
S-80	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1752, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 82, 83, 84, 86 and 92 (based on 135 kBBBL/day) (Grandfathered Source)
S-81	Tank, External Floating Roof, GOLD, Water/organics mixture, Welded, Pontoon (TK-1753, GASOLINE)	N/A	N/A	3654 kgal	8.21 MMBBL/year combined with S-85, 103 and 104 (actual) (Grandfathered Source)
S-82	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1754, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 83, 84, 86 and 92 (based on 135 kBBBL/day) (Grandfathered Source)
S-83	Tank, External Floating Roof, GOLD,	N/A	N/A	5040 kgal	49.275 MMBBL/year

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Gasoline - unleaded, Welded, Pontoon (TK-1755, GASOLINE)				combined with S-79, 80, 82, 84, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
<b>S-84</b>	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1756, GASOLINE)	N/A	N/A	3780 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 86 and 92 (based on 135 kBBL/day) (Grandfathered Source)
<b>S-85</b>	Tank, External Floating Roof, GOLD, Water/organics mixture, Waste oil, Welded, Pontoon (TK-1757, GASOLINE)	N/A	N/A	1260 kgal	8.21 MMBBL/year combined with S-81, 103 and 104 (actual) (Grandfathered Source)
<b>S-86</b>	Tank, External Floating Roof, GOLD, Gasoline - unleaded, Welded, Pontoon (TK-1758, GASOLINE)	N/A	N/A	3150 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84 and 92 (based on 135 kBBL/day) (Grandfathered Source)
<b>S-87</b>	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1759, GASOLINE)	N/A	N/A	650 kgal	13.0 MMBBL/year combined with S-88, 89, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
<b>S-88</b>	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1760, GASOLINE w/Primary and Secondary Seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
<b>S-89</b>	Tank, Internal Floating Roof, 6WHITE, Gasoline - unleaded, Welded, Pan (TK-1761, GASOLINE)	N/A	N/A	651 kgal	13.0 MMBBL/year combined with S-87, 88, 90 and S-91 (based on combined total of

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					35.7 kBBL/day) (Grandfathered Source)
<b>S-90</b>	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1762, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-91 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
<b>S-91</b>	Tank, Internal Floating Roof, WHITE, Gasoline - unleaded, Welded, Pan (TK-1763, GASOLINE w/liquid mounted primary and secondary seals)	N/A	N/A	307 kgal	13.0 MMBBL/year combined with S-87, 88, 89 and S-90 (based on combined total of 35.7 kBBL/day) (Grandfathered Source)
<b>S-92</b>	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1771, JP4)	N/A	N/A	4620 kgal	49.275 MMBBL/year combined with S-79, 80, 82, 83, 84, 86 & 97 (based on 135 kBBL/day) (Grandfathered Source)
<b>S-97</b>	Tank, External Floating Roof, GOLD, Fuel - jet 'A', Welded, Pontoon (TK-1776, JP4)	N/A	N/A	4620 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 78 and 163 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
<b>S-101</b>	Tank, Internal Floating Roof, GOLD, Water/organics mixture, Welded, Pan (TK-1791, SLOP w/ primary & secondary seals)	N/A	N/A	189 kgal	5 MMBBL/year (based on 400 gpm rate) (Grandfathered Source)
<b>S-103</b>	Tank, Internal Floating Roof, GREEN, Water/organics mixture, Welded, Pan (TK-1793 SLOP)	N/A	N/A	676 kgal	8.21 MBBL/year combined with S-81, 85, and 104 (actual) (Grandfathered Source)
<b>S-104</b>	Tank, External Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1795, SLOP)	N/A	N/A	3654 kgal	8.21 MBBL/year combined with S-81, 85, and 103 (actual)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(Grandfathered Source)
<b>S-105</b>	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pontoon (TK-1796, WWTP SLOP)	N/A	N/A	189 kgal	690.5 kBBL/year - Condition #8771 (Grandfathered Source)
<b>S-106</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1797, SLOP)	N/A	N/A	76 kgal	548 kBBL/year (actual) (Grandfathered Source)
<b>S-108</b>	Tank, Pressure, GOLD, Organic liquid - other/not spec, (TK-1801, MMT)	N/A	N/A	16,800 gal	6.85 kBBL/year (Grandfathered Source)
<b>S-110</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1803, HTA)	N/A	N/A	16,800 gal	260 kBBL/year (actual) (Grandfathered Source)
<b>S-111</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1804, HTA)	N/A	N/A	71 kgal	5300 kBBL/year (actual) (Grandfathered Source)
<b>S-112</b>	Tank, Internal Floating Roof, GOLD, Organic liquid -other/not spec, Welded, Pan (TK-1805, TEL WASH)	N/A	N/A	336 kgal	547.5 kBBL/year (based on 1.5 kBBL/day) (Grandfathered Source)
<b>S-113</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1806, LUBRISOL)	N/A	N/A	2520 gal	85 BBL/year (Grandfathered Source)
<b>S-114</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1807, GASOLINE RED DYE)	N/A	N/A	2520 gal	85 BBL/year (actual) (Grandfathered Source)
<b>S-115</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1808, GASOLINE ORANGE DYE)	N/A	N/A	2520 gal	55 BBL/year (actual) (Grandfathered Source)
<b>S-117</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1810, CORROSION INHIBITOR)	N/A	N/A	6300 gal	200 BBL/year (actual) (Grandfathered Source)
<b>S-120</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec,(TK-1813, METAL DEACT)	N/A	N/A	2520 gal	73 BBL/year (actual) (Grandfathered Source)
<b>S-122</b>	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK 1814, ADDITIVES)	N/A	N/A	2540 gal	85 BBL/year (Grandfathered Source)
<b>S-124</b>	Tank, Pressure, GOLD, Paraffins - C3+, (TK-1735, PENTANES)	N/A	N/A	3360 kgal	3.28 MMBBL/year (average of 9.0

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					kBBL/day) (Grandfathered Source)
<b>S-129</b>	Loading, Ship, Ship, 7 Loading Arms (Total) and 3 Loading Arms (Gasoline), Multi-liquid, Unknown fill (Crude / Product Dock (renamed July 1995))	Continental EMSCO Loading arms	4 – CEHMA-10; 3 – CEHMA-6	240 kBBL/day (based on 10kBBL/hour)	9.39 MMBBL/year gasoline loaded (average of 25.7 kBBL/day) (New Source Review)
<b>S-131</b>	Storage, Refinery sludge, (WASTE WATER SLUDGE DRUM D2069)	N/A	N/A		29 MM gal/12-month (see S-208) (Grandfathered Source)
<b>S-132</b>	Storage, Caustic waste, (Tk 2711, SPENT CAUSTICS)	N/A	N/A		325 kBBL/year (Grandfathered Source)
<b>S-133</b>	Storage, Acid - waste, (TK 2712, SPENT ACID)	N/A	N/A		219 kBBL/year (average of 600 BBL/day) (Grandfathered Source)
<b>S-134</b>	Storage, Caustic waste, (TK 2713, SPENT CAUSTIC SURGE)	N/A	N/A		207 kBBL/year (Grandfathered Source)
<b>S-143</b>	Tank, Vertical Fixed Roof, UN, Hydrocarbon - mixtures, other/not spec, (Corrosion Inhibitor Tank (EC1010A or equivalent)) TK-1034	N/A	N/A	4500 gal	15 kgal/12-month (Condition #13045) (New Source Review)
<b>S-150</b>	Refinery sour waste water, (TK 2051, PRIMARY SLUDGE THICKENER)	N/A	N/A		3.19 MMBBL/year feed (design basis of 255 gpm) (Grandfathered Source)
<b>S-151</b>	Wastewater storage - ponds, Stormwater and processwater, (Wastewater Equalization Pond)	N/A	N/A		S-151 contains only diverted storm water during severe weather Very low concentrations of HC bearing compounds would be detected in this water. For the most part these ponds are dry. No throughput limits would be

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					applicable (Grandfathered Source)
<b>S-154</b>	Refinery sour waste water (WASTE WATER BIOXIDATION UNIT 2053A)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-155 and 169 (average of 2600 gpm) (Grandfathered Source)
<b>S-155</b>	Refinery sour waste water, (WASTE WATER BIOXIDATION UNIT 2053B)	N/A	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 169 (average of 2600 gpm) (Grandfathered Source)
<b>S-156</b>	Wastewater storage - ponds, (WASTE WATER RETENTION POND)	N/A	N/A		S-156 contains diverted process/stormwater. Very low concentrations of HC bearing compounds would be detected in this pond. For the most part these ponds are normally dry. No throughput limits apply (Grandfathered Source)
<b>S-157</b>	Storage, Sulfur, (SULFUR STORAGE PIT AT SULFUR PLANTS)	N/A	N/A	1147 short tons/day (average of 47.8 short tons/hour) Sulfur production	116,800 short tons/year (combined permit condition sulfur production from S-1 and S-2) (Grandfathered Source)
<b>S-158</b>	Tank, Vertical Fixed Roof, GOLD, Perchloroethylene (PERC), Carbon tetrachloride, 7 ft diameter (TK 2902, Carbon Tetrachloride)	N/A	N/A	2300 gal	10 kgal/12-month (PERC) (Condition #9584) (New Source Review)
<b>S-159</b>	Other petroleum products; Other, Lube oil, (S.G.701 & G.T.701 Lube Oil Reservoir)	Custom	N/A	410.4 kgal/day (average. of 17.1 kgal/hour)	149.8 MMgal/year (based on 410.4 kgal/day)



## II. Equipment

**Table II A - Permitted Sources**

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S-#	Description	Make or Type	Model	Capacity	Throughput
					(Grandfathered Source)
<b>S-160</b>	Other petroleum products; Other, Lube oil, 7 days/wk, 24 hours/day, 2 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C1031)	Custom	N/A	38.4 kgal/day (average. of 1.6 kgal/hour)	14.0 MMgal/year (based on 38.4 kgal/day) (Grandfathered Source)
<b>S-161</b>	Separator - oil/water, Waste water, (OILY WATER SEWER PIPELINE)	N/A	N/A		Throughput limit not prudent for sewer system which handles both oily water and stormwater (Grandfathered Source)
<b>S-163</b>	Tank, External Floating Roof, GOLD, Waste oil, Gasoline - unleaded, Welded, Pontoon (TK 1732, GASOLINE COMPONENT)	N/A	N/A	3780 kgal	62.8 MMBBL/year combined with S-63, 73, 74, 75, 76, 78 and 97 (based on combined total of 172.1 kBBL/day) (Grandfathered Source)
<b>S-165</b>	GDF, vehicle, non-retail-fee, balance (Phase 2), 2 tanks, 1 exempt nozzle, 1 gasoline nozzle (GDF #6764)	Nozzle: Gilbarco Balance System: Emco Wheaton	Nozzle: 625-100 Balance System: #A3003		2.2 kBBL/year (Grandfathered Source)
<b>S-167</b>	Other petroleum products; Other, Oil - non-fuel, other/not spec, 6.6 tons/hour max, 7 days/wk, 24 hours/day, 50 wks/year (Seal Oil Sparger for Compressor C-401)	N/A	N/A	25.1 kgal/day (average. of 17.4 gpm)	9.15 MMgal/year (based on 25.1 kgal/day) (Grandfathered Source)
<b>S-168</b>	Other petroleum products; Other, Paraffins - C3+, 1.7 N/A/hour max, 7 days/wk, 24 hours/day, 50 wks/year (SEAL OIL SPARGER FOR COMPRESSOR C-2901)	N/A	N/A	21.6 kgal/day (average of 15 gpm)	7.9 MMgal/year (based on 21.6 kgal/day) (Grandfathered Source)
<b>S-169</b>	Other process/not specified, Refinery waste water, 1.25 thou barrels/hour max, 7 days/wk, 24 hours/day, 52 wks/year (Third Biooxidation Unit)	Custom	N/A	S-154, 155 and 169 Combined throughput limit of 89.1 kBBL/day (average of 2600 gpm)	32.5 MMBBL/year combined with S-154 and 155 (based on 89.1 kBBL/day) (New Source Review)
<b>S-170</b>	Tank, Vertical Fixed Roof, YELLOW,	N/A	N/A	5470 gal	13675 gal/year

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Hexane, Organic liquid -other/not spec, (TK 2317, Cationic Polymer (Utilities))				(New Source Review)
S-171	Tank, Vertical Fixed Roof, YELLOW, Methyl alcohol, (Methanol Storage Tank)	N/A	N/A	500 gal	26 kgal/year (New Source Review)
S-173	Process Heater/Furnace, Refinery make gas (RMG) (Coker Steam Superheat Furnace F-902)	Burners: John Zink	PVYD SF 16 (or equivalent)	5.28 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum firing rate of 22 MMBTU/hour (HHV)) (Regulation 9, Rule 10 Compliance Plan)	1.93 MMtherms/year (throughput is based on an demonstrated actual hourly maximum firing rate of 22 MMBTU/hour (HHV)) (New Source Review)
S-174	Material Handling/Miscellaneous, Lime, (TK 2321, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-175	Material Handling/Miscellaneous, Lime, (TK 2322, Lime Slurry)	N/A	N/A	75 tons/day	4,562.5 tons/year (New Source Review)
S-176	Material handling - other/not, Salt, (TK 2325, Brine Saturator)	Scienco (or equivalent)	N/A	50 tons/day	600 tons/year (New Source Review)
S-177	Solvent Cleaning, Solvent cleaning; (Solvent Cleaning Station-Dip Tank)	Custom	N/A		300 gal/year (New Source Review)
S-180	Tank, Vertical Fixed Roof, WHITE, Hydrocarbon - mixtures, other/not spec, (Demulsifier Storage Tank, Breaxit 410)	N/A	N/A	3 kgal	3000 gal/year (New Source Review)
S-188	Separator - oil/water, Waste water, 1 days/wk, 24 hours/day, 52 wks/year (Oil/Water/Sediment Separator)	WEMCO	Pacesetter	24 kBBL/day (permit limit)	8.76 MBBL/year (permit limit) (New Source Review)
S-189	Separator - oil/water, Waste water, (Induced Static Flotation Cell)	L'eau Claire Int'l	75x	24 kBBL/day (permit limit)	8.76 MBBL/year (permit limit) (New Source Review)
S-193	Other petroleum products; Other, Waste water (TK 2027, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-196 (total of 3000 gpm) (New Source Review)
S-194	Separator - oil/water, Waste water, (Oil/Water/Sediment Separator #2006)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-195	37.5 MMBBL/year combined with S-195

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(total of 3000 gpm) (New Source Review)
<b>S-195</b>	Separator - oil/water, Waste water (Oil/Water/Sediment Separator #2056)	WEMCO	Pacesetter	102.9 kBBL/day combined with S-194	37.5 MMBBL/year combined with S-194 (total of 3000 gpm) (New Source Review)
<b>S-196</b>	Other petroleum products; Other, Waste water (TK 2077, Diversion)	N/A	N/A		37.5 MMBBL/year combined with S-193 (total of 3000 gpm) (New Source Review)
<b>S-197</b>	Separator - oil/water, Waste water (Induced Static Flotation Cell #2007)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-198	37.5 MMBBL/year combined with S-198 (total of 3000 gpm) (New Source Review)
<b>S-198</b>	Separator - oil/water, Waste water (Induced Static Flotation Cell #2057)	L'eau Claire Int'l	unknown	102.9 kBBL/day combined with S-197	37.5 MMBBL/year combined with S-197 (total of 3000 gpm) (New Source Review)
<b>S-199</b>	Tank, Vertical Fixed Roof, GOLD, Crude oil, (Oil Collection Drum D-2055)	N/A	N/A	1300 gal	41.7 kBBL/year (based on 200 gal/hour) (New Source Review)
<b>S-200</b>	Other petroleum products; Other, Oil/water mixture, (Collection Drum D-2056)	N/A	N/A		2.50 MMBBL/year (design basis of 200 gpm) (New Source Review)
<b>S-202</b>	Loading, Truck, 1 Loading Arm (Total), Crude oil, Bottom/Submerged fill (Vacuum Truck Loading from Tank (S-131))	N/A	N/A	79.5 kgal/day	29 MMgal/year Condition #8771 (New Source Review)
<b>S-205</b>	Other petroleum products; Other, Waste water (Surge Tank #2026)	N/A	N/A		37.5 MMBBL/year combined with S-206 (total of 3000 gpm) (New Source Review)
<b>S-206</b>	Other petroleum products; Other, Waste water (Surge Tank #2076)	N/A	N/A		37.5 MMBBL/year combined with S-205 (total of 3000 gpm) (New Source Review)
<b>S-207</b>	Tank, External Floating Roof, GOLD, Multi-	N/A	N/A	14,700 kgal	5.8 MMBBL/365-day

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	liquid, Welded, Pontoon (Tk 1740, MTBE/Mogas)				(MTBE); 16.9364 MMBBL/365-day (mogas) (Condition #10797) (New Source Review)
S-208	Other petroleum products; Other, Petroleum products - other/not spec, (Coker Feed Drum D-920)	N/A	N/A		29 MMgal/12-month (Condition #8771) (New Source Review)
S-209	Loading, Truck, 5 Loading Arms (Total), Methyl alcohol, Bottom/Submerged fill (Methanol Railcar Unloading Facility) Ethanol, Mogas/component service	N/A	“Dry-break” nozzles		2,920 trucks/12-month (Condition #9296) (New Source Review)
S-210	Tank, Internal Floating Roof, - UN, Methyl alcohol, Welded (TK-1820, Methanol) Ethanol/Mogas component	N/A	N/A	630 kgal	575 kBBL methanol/ethanol/12-month (Condition #9296) (New Source Review)
S-220	Combustion, Furnace - Other, Refinery make gas (RMG) (Hot Oil Furnace)	Custom	N/A	84.24 ktherms/day (daily capacity is based on an demonstrated actual hourly maximum rate of 351 MMBTU/hour) (9-10 Compliance Plan)	28.908 MMtherms/365-day (Condition #10574) (New Source Review)
S-227	Tank, Vertical Fixed Roof, GOLD, Multi-liquid, (C5/Heatcut/Mogas Component Storage Tank)	N/A	N/A	7350 kgal	3.14 MMBBL/year (average. of 8.6 kBBL/day) (New Source Review)
S-232	Material handling - (ESP Fines Vacuum Conveying System)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-233	Storage, (ESP Fines Storage Bin)	N/A	N/A	20 tons/day	7,300 tons/12-month (Condition #12727) (New Source Review)
S-234	Fixed roof tank, 2kgal, demulsifier	N/A	N/A	2 kgal	121.8 kgal/year (New Source Review)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-235	Fixed roof tank, 1kgal, demulsifier	N/A	N/A	1 kgal	60.9 kgal/year (New Source Review)
S-236	Product Sulfur Tank 1901-(new)	N/A	N/A	126 kgal	116,800 short tons/year sulfur production (Combined sulfur production from S-1 and S-2 (New Source Review)
S-237	BOILER-SG1032-(new)	Babcock & Wilcox; Burners: Todd	Type D; Burners: Veriflame SV925 IGO	75.60 ktherms/day average of 315 MMBTU/hour (Condition #16027- 19)	25.0536 MMtherms in any 365 consecutive day period (average of 286 MMBTU/hour) (Condition #16027-18) (New Source Review)
S-239	Crude/Product dock Sump (TK-1918)	N/A	N/A	3100 gal	102 kgal/year (New Source Review)
S-240	Emergency Diesel Engine for Break Tank Raw Water Pump, (P-2401C)	Caterpillar	3408 B, 550 HP		<100 hours/year reliability-related activities (Grandfathered Source)
S-241	Emergency Diesel Engine for Crude Field Firewater Pump, (P-2602)	Cummin	NT-855-FS, 230 HP		<100 hours/year reliability-related activities (Grandfathered Source)
S-242	Emergency Diesel Engine for Dock Firewater Pump (P-2607B)	Cummin	VTA-1710-P700, 700 HP		<100 hours/year reliability-related activities (Grandfathered Source)
S-243	Emergency Diesel Engine for Control Room Standby Power (DG-5101)	Detriot Diesel	Series 92, Model 8163-7405, 1095 HP		<100 hours/year reliability-related activities (New Source Review)
S-1002	Hydrotreating/hydrofining, Diesel oil, (DIESEL HYDROFINER)	N/A	N/A	14.0 kBBL/day feed (design safety valve limit)	5.1 MMBBL/year feed (14.0 kBBL/day) (Grandfathered Source)
S-1003	Hydrocracking, Distillate oil, 7 days/wk, 24 hours/day, 48 weeks/year	N/A	N/A	40.0 kBBL/day fresh feed (design safety	14.6 MMBBL/year fresh feed (40.0

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	(HYDROCRACKER)			valve limit)	kBBL/day) (Grandfathered Source)
<b>S-1004</b>	Catalytic reforming, Reformate, (CATALYTIC REFORMER-(PFR))	N/A	N/A	39.8 kBBL/day (maximum actual and BAAQMD Condition # 18794, Part 1) feed	12.739 MMBBL/year feed (annual average. of 34.9 kBBL/day) (New Source Review)
<b>S-1005</b>	Hydrotreating/hydrofining, Gas oil, (CAT. FEED HYDROFINER)	N/A	N/A	41.4 kBBL/day feed (design feed pump)	15.1 MMBBL/year (41.4 kBBL/day) (Grandfathered Source)
<b>S-1006</b>	Distillation - crude, Crude oil, (CRUDE UNIT WITH 55E6 BTU/hour HEAT EXCHANGER)	N/A	N/A	135 kBBL/day crude oil feed (condition # 815)	49.3 MMBBL/year (based on 135 kBBL/day) (New Source Review)
<b>S-1007</b>	Alkylation, Alkylate, (ALKYLATION UNIT)	N/A	N/A	22.8 kBBL/day (limit based on A/N 3782)	year 8.32 MMBBL/year (based on 22.8 kBBL/day per A/N 3782) (New Source Review)
<b>S-1008</b>	Hydrotreating/hydrofining, Gasoline - leaded, Gasoline - unleaded, (GASOLINE HYDROFINER)	N/A	N/A	35.0 kBBL/day feed (unit hydraulic limit)	12.8 MMBBL/year feed based on a design rate of 35.0 kBBL/day. (Grandfathered Source)
<b>S-1009</b>	Hydrotreating/hydrofining, Fuel - jet 'A', (JET FUEL HYDROFINER)	N/A	N/A	17.9 kBBL/day feed (design safety valve limit)	6.5 MMBBL/year feed (17.9 kBBL/d) (Grandfathered Source)
<b>S-1010</b>	Hydrogen manufacturing, Refinery make gas (RMG), 5900000 million cubic feet/hour max, (HYDROGEN PLANT)	N/A	N/A	164 MMscf/day combined product hydrogen from both A and B trains (CFP duty permit limit)	59,900 MMscf/year combined product H2 (164 MMScf/day) (Grandfathered Source)
<b>S-1011</b>	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, (HEAVY CAT NAPHTHA HYDROFINER)	N/A	N/A	25.0 kBBL/day (design safety valve limit)	9.1 MMBBL/year (25.0 kBBL/day) (Grandfathered Source)
<b>S-1012</b>	Feedstock; Other/not specified, Petroleum products -other/not spec, (Dimersol Unit)	N/A	N/A	5.0 kBBL/day propylene feed	1.825 MMBBL/year (based on 5.0 kBBL/day)

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
					(New Source Review)
<b>S-1013</b>	Tank, Pressure, YELLOW, Hexane, Organic liquid -other/not spec, (Dimersol Unit - (D2720) EADC 10.0 kgal Tank)	N/A	N/A	10 kgal	2.84 kBBL/year (design pump limit) (New Source Review)
<b>S-1014</b>	Feedstock; Other/not specified, (Cracked Light Ends Process Unit)	N/A	N/A	90.0 kBBL/day total feed (design limit)	32.8 MMBBL/year total feed (90.0 kBBL/day) (Grandfathered Source)
<b>S-1020</b>	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Heartcut Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
<b>S-1021</b>	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 100 thou barrels/day max, (Heartcut Saturation Unit)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
<b>S-1022</b>	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Reformer T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
<b>S-1023</b>	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (Cat. Naphtha T-90 Tower)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
<b>S-1024</b>	Hydrotreating/hydrofining, Refinery feedstock -other/not spec, 24 thou barrels/day max, (Light Cat. Naphtha Hydrotreater)	N/A	N/A	24 kBBL/day	8.76 MMBBL/year (based on 24 kBBL/day) (New Source Review)
<b>S-1026</b>	Distillation - other, Refinery feedstock - other/not spec, 100 thou barrels/day max, (C5/C6 Splitter)	N/A	N/A	100 kBBL/day	36.5 MMBBL/year (based on 100 kBBL/day) (New Source Review)
<b>S-1027</b>	Pentane Rail Car Loading Rack	N/A	N/A	22,500 bbls/day	8.215 MM Bbl/year Condition #17835 (New Source Review)
<b>S-1030</b>	Combustion Turbine Generator (Refinery)	General Electric	LM 6000	500 MMBTU/hour	6,341,000

## II. Equipment

**Table II A - Permitted Sources**

Each of the following sources has been issued a permit to operate pursuant to the requirements of BAAQMD Regulation 2, Permits. The capacities in this table are the maximum allowable capacities pursuant to 2-1-301. Throughput limits for grandfathered sources function as reporting thresholds as described in Standard Condition J.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Fuel Gas and/or Natural Gas Fired)				MMBTU/year (combined S-1030 & S-1031) (New Source Review)
<b>S-1031</b>	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,341,000 MMBTU/year (combined S-1030 & S-1031) (New Source Review)
<b>S-1032</b>	Combustion Turbine Generator (Refinery Fuel Gas and/or Natural Gas Fired)	General Electric	LM 6000	500 MMBTU/hour	6,341,000 MMBTU/year (combined S-1032 & S-1033) (New Source Review)
<b>S-1033</b>	Heat Recovery Steam Generator	N/A	Duct Burner Supplemental Firing System	310 MMBTU/hour	6,341,000 MMBTU/year (combined S-1032 & S-1033) (New Source Review)



## II. Equipment

**Table II B - Exempt Sources**

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
S-65	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1713, RESID)	N/A	N/A	5250 kgal	Exempt
S-69	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, Gas oil, (TK-1717, RESID)	N/A	N/A	5250 kgal	Exempt
S-70	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1718, RESID)	N/A	N/A	5250 kgal	Exempt
S-71	Tank, Vertical Fixed Roof, ALUMSP, Distillate oil, (TK-1719, RESID)	N/A	N/A	15,708 kgal	Exempt
S-93	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1772, JP5)	N/A	N/A	4620 kgal	Exempt-jet fuel
S-94	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1773, JP5)	N/A	N/A	1050 kgal	Exempt-jet fuel
S-95	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1774, DIESEL)	N/A	N/A	3150 kgal	Exempt-distillate
S-96	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1775, DIESEL)	N/A	N/A	3150 kgal	Exempt-distillate
S-98	Tank, Vertical Fixed Roof, WHITE, Distillate oil, (TK-1777, DIESEL)	N/A	N/A	651 kgal	Exempt-distillate
S-99	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1778, ETFA)	N/A	N/A	2373 kgal	Exempt-jet
S-100	Tank, Vertical Fixed Roof, GREEN, Fuel - jet 'A', (TK-1779, ETF-A)	N/A	N/A	2373 kgal	Exempt-jet
S-107	Tank, Vertical Fixed Roof, GOLD, Distillate oil, (TK-1798, DIESEL (FUEL OIL))	N/A	N/A	4410 kgal	Exempt-distillate
S-109	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1802, GASOLINE ANTI-OXIDANT)	N/A	N/A	16,800 gal	Exempt-additive
S-116	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1809, PETROX)	N/A	N/A	39 kgal	Exempt-additive
S-118	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1811, AO33)	N/A	N/A	17 kgal	Exempt-additive
S-119	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (TK-1812, ANTI-ICE)	N/A	N/A	16,800 gal	Exempt-additive
S-121	Tank, Vertical Fixed Roof, GOLD, Organic liquid -other/not spec, (D-807,	N/A	N/A	6468 gal	Exempt-additive

## II. Equipment

**Table II B - Exempt Sources**

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
	POLYSULFIDE DRUM)				
S-123	Tank, Vertical Fixed Roof, GOLD, (TK-1794,) Diesel Red Dye	N/A	N/A	8400 gal	Exempt
S-127	Loading, Motor Vehicle, Motor Vehicle Refueling Station, 1 Loading Arms (Total) and 0 Loading Arms (Gasoline), Distillate oil, Bottom/Submerged fill (DIESEL DISPENSER, SERVICES BLDG AREA)	Gilbarco Loading Arm	625-100		Exempt-distillate
S-140	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1204, MEA INVENTORY)	N/A	N/A	10600 gal	Exempt-additive
S-142	Tank, Vertical Fixed Roof, YELLOW, Hydrocarbon – mixtures, other/not spec, (TK-103, Demulsifier Tank)	N/A	N/A	7 kgal	Exempt-additive
S-144	Tank, Pseudo fixed roof tank, SILVER, Hydrocarbon - mixtures, other/not spec, (TK 5013, Neutralizing Amine (Pipestill))	N/A	N/A	1500 gal	Exempt-additive
S-145	Tank, Vertical Fixed Roof, YELLOW, Alcohol - amine, (TK 1201, – MDEA ACCUMULATOR (20% SOLUTION))	N/A	N/A	47 kgal	Exempt-additive
S-185	Tank, Vertical Fixed Roof, UN, Organic liquid -other/not spec, (Cationic Polymer Tank)	N/A	N/A	5 kgal	Exempt
S-192	Other petroleum products; Other, Waste water (TK 2052, Thickener)	N/A	N/A		Exempt-additive
S-201	Loading, Truck, 1 Loading Arm (Total), Waste water, Bottom/Submerged fill (Vacuum Truck Loading from Thickener Tank (S-192))	N/A	N/A		Exempt
S-214	Process drain - w/o controls, Waste water - (BIOX Aerator for Stripped Sour Water)	N/A	N/A		Exempt
S-215	Process drain - w/o controls, Waste water - (BIOX Clarifier for Stripped Sour Water)	N/A	N/A		Exempt
S-217	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-218	Tank, Vertical Fixed Roof, BLACK, Refinery sludge, (WWTP Sludge Tank)	N/A	N/A	22 kgal	Exempt
S-219	Tank, Vertical Fixed Roof, BLACK,	N/A	N/A	22 kgal	Exempt

## II. Equipment

**Table II B - Exempt Sources**

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
	Refinery sludge, (WWTP Sludge Tank)				
S-238	BIOX Aerator for stripped sour water	N/A	N/A		Exempt
S-1019	Other petroleum products; Other (Laboratory Sample Waste Sinks)	N/A	N/A		Exempt
S-32000	Combustion, Minor Sources, Natural gas (MINOR SOURCES)	N/A	N/A		Pilot gas to combustion devices, excluding flares - Exempt
S-32100	Refinery vacuum products (Fugitive Sources - Vacuum Producing Systems)	N/A	N/A		Exempt
S-32101	Refinery process vessels (Fugitive Sources – Process Vessel Depressurization)	N/A	N/A		Exempt
S-32102	Refinery valves/flanges (Fugitive Sources – Valves and Flanges)	N/A	N/A		Exempt
S-32103	Refinery pumps/compressors (Fugitive Sources - Pumps & Compressor Seals)	N/A	N/A		Exempt
S-32104	Refinery pressure relief valve (Fugitive Sources - Pressure Relief Valves)	N/A	N/A		Exempt
S-32105	Refinery process drains (Fugitive Sources – Process Drains)	N/A	N/A		Exempt
S-32110	Refinery flaring/blowdown (Process Gas (Combustion) Emissions from Flares and Blowdown Systems)	N/A	N/A		Exempt
S-230	TK-4460 Dowtherm Storage Tank	N/A	N/A		Exempt
S-231	Aqueous Ammonia Storage Drum	N/A	N/A		Exempt
None	TK-1730 Flushing Oil Tank	N/A	N/A		Exempt
None	TK-1721 LPG Sphere	N/A	N/A		Exempt
None	TK-1722 LPG Sphere	N/A	N/A		Exempt
None	TK-1723 LPG Sphere	N/A	N/A		Exempt
None	TK-1724 LPG Sphere	N/A	N/A		Exempt
None	TK-1725 LPG Sphere	N/A	N/A		Exempt
None	TK-1726 LPG Sphere	N/A	N/A		Exempt
None	D-3905 A/B Anhydrous Ammonia Drums	N/A	N/A		Exempt
None	LPG Truck Loading Rack	N/A	N/A		Exempt
None	Octane Test Engines	N/A	N/A		Exempt
None	Post-BIOX Selenium Removal Facilities	N/A	N/A		Exempt
None	TK-2700 Fresh Caustic Tank	N/A	N/A		Exempt
None	Nitrogen Plant	N/A	N/A		Exempt

## II. Equipment

**Table II B - Exempt Sources**

Each of the following sources has been issued an exemption pursuant to the provisions of BAAQMD Regulation 2, Rule 1.

S-#	Description	Make or Type	Model	Capacity	Throughput
None	Assorted Organic Liquid Storage Vessels and Containers Less Than 260 gallons	N/A	N/A		Exempt
None	Assorted Tanks, Vessels, and Pumping Equipment Associated with Aqueous Solutions	N/A	N/A		Exempt
None	Assorted Containers, Tanks, Reserviors and Loading Equipment Associated with Heavy and/or Low Volatility Organic Liquids	N/A	N/A		Exempt

**Table II C - Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
1	A-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
2	B-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
3	C-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
4	D-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
5	E-Cell Electrostatic Precipitator (ESP)	3, 4, 5, 6, 10, 13, 50	6-302 (6-304 during S-3 & S-4 sootblowing)	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr, except <40% during sootblowing
6	Baghouse on WWTP Activated Carbon Bin	11	6-301	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr
7	Baghouse on Util Lime Silo	12	6-301	Visible emissions from Lime Silo	Ringelmann No. 1 < 3 min/hr
8	Baghouse on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
9	Venturi Scrubber/Cyclone Separator on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
10	Baghouse on Coke Silos	8	6-301	Visible emissions from Coke Silos	Ringelmann No. 1 < 3 min/hr
11	Vapor Recovery Compressor on TK-1735	124	8-5-306	Tank pressure	95% recovery efficiency
12	Vapor Recovery Compressor on TK-1735	124	8-5-306	Tank pressure	95% recovery efficiency
13	Vapor Recovery Compressor Flare Gas Recovery Header	9, 133, 188, 189	6-301	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr

## II. Equipment

**Table II C - Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
14	SGU-A Incinerator (use only for upsets/emergencies)	1	9-1-307	None	250 ppm SO <sub>2</sub> at 0% O <sub>2</sub> for < 1 hour
15	SGU-B Incinerator (use only for upsets/emergencies)	2	9-1-307	None	250 ppm SO <sub>2</sub> at 0% O <sub>2</sub> for < 1 hour
19	Vapor Recovery Compressor on TK-2801	55	8-5-306	Tank pressure	95% recovery efficiency
20	Tertiary Cyclone on FCCU Regenerator	5, 13	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
22	Cyclone on FCCU Catalyst Railcar Unloading Hopper	10	6-302	Main Stack opacity CEM (1-520.5/.6)	20% opacity < 3 min/hr
23	Bag Filter on FCCU Catalyst Railcar Unloading System	10	6-301	Visible emissions from railcar unloading system	Ringelmann No. 1 < 3 min/hr
24	Tail Gas Hydrogenation Unit on SGU A/B Trains (Beavon Section), preparing tail gas for A-56	1, 2	9-1-307	TRS continuous monitor on A-56 Flexsorb Stack (BAAQMD Condition # 125 [2], BAAQMD Condition # 126 [2])	250 ppm SO <sub>2</sub> at 0% O <sub>2</sub> for < 1 hour
25	Thermal De-NO <sub>x</sub> System on F-401	23	BAAQMD Condition # 14318 [1]	NO <sub>x</sub> /O <sub>2</sub> CEM on F-401 stack (BAAQMD Condition # 14318 [2])	40 ppm @ 3% O <sub>2</sub> , 8 hour average.
26	Vapor Recovery Compressor Flare Gas Recovery Header	9, 133, 188, 189	6-301	Visible emissions North/South Flares	Ringelmann No. 1 < 3 min/hr
27	Vent Disposal to SG-701 for FCCU Lube Oil Reservoir	159	6-301	Visible emissions on Lube Oil Reservoir vent	Ringelmann No. 1 < 3 min/hr
29	Carbon Adsorption Unit (DVRU) on Marine Loading Dock	129	8-44-301, BAAQMD Condition # 1709 [3]	VOC continuous monitor on DVRU stack ( BAAQMD Condition # 1709 [5])	95% recovery efficiency, or 2 lb VOC/1,000 BBL loaded
36	Carbon Canisters on WWTP Upstream Diversion Tanks	193, 196, 205, 206	BAAQMD Condition # 11880 (2), 60.112b(a)(3) (ii), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/37 carbon beds (BAAQMD Condition # 11880 [3], [7])	15 lb/day total NMHC from A-36 and A-37, averaged over one month, 95% recovery efficiency (NSPS Kb, NESHAPS FF)
37	Carbon Canisters on WWTP On-Site Equipment	131, 150, 194, 195, 197, 198, 199, 200	BAAQMD Condition # 11879 (10), BAAQMD Condition # 11882 (10), COND ID# 11888 (10), BAAQMD Condition # 13319 (15), 61.349(a)(2)(ii)	Mass emissions determined from flow meters and VOC continuous monitors on A-36/37 carbon beds (BAAQMD Condition # 11879 [11], [16], BAAQMD Condition # 11882 [11], [16],	15 lb/day total NMHC from A-36 and A-37, averaged over one month, 95% recovery efficiency (NESHAPS FF))

## II. Equipment

**Table II C - Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
				BAAQMD Condition # 11888 [11], [16], BAAQMD Condition # 13319 [16], [18])	
38	Vapor Balance System on truck loading WWTP sludge from TK-2051	201	BAAQMD Condition # 11883 (1)	Fugitive inspection	100 ppm leak standard
39	Vapor Balance System on truck loading WWTP sludge from D-2069	202	BAAQMD Condition # 11884 (1)	Fugitive inspection	100 ppm leak standard
40	Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
41	Vapor Recovery Compressor on Coker Feed Tanks	65, 69, 70, 71	None (exempt tanks)	None	None
45	Selective Catalytic Reduction for F-4460	220	BAAQMD Condition # 10574 [23], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on F-4460 stack BAAQMD Condition # 10574 [27], 60.48b(b)(1)	10 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
46	Vapor Recovery Compressor for TK-1741	227	8-5-306, BAAQMD Condition # 10574 [42], 60.112b(a)(3) (ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
47	Vapor Recovery Compressor for TK-1741	227	8-5-306, BAAQMD Condition # 10574 [42], 60.112b(a)(3) (ii)	Tank pressure	95% recovery efficiency (NSPS Kb)
51	Selective Catalytic Reduction for GT-702	37, 45	9-9-301.3, BAAQMD Condition # 16386 [1], [2]	NOx/O2 CEM on GT/SG-702 stack	9 ppmv NOx, dry, 15% O2, 3-hr average.
52	Thermal De-NOx System for F-101	3	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2, daily average.
53	Thermal De-NOx System for F-102	4	9-10-304.1	NOx/O2 CEM on Main Stack (9-10-502)	150 ppm, dry, 3% O2, daily average.
54	Baghouse on ESP fines vacuum conveying system	232	6-301, BAAQMD Condition # 12727 (3)	Visible emissions from vacuum conveying system	Ringelmann No. 1 < 3 min/hr
55	Baghouse on ESP fines storage bin	233	6-301, BAAQMD Condition # 12727 (4)	Visible emissions from storage bin	Ringelmann No. 1 < 3 min/hr
56	Tail Gas Cleanup Unit on SGU A/B Trains (Flexsorb Section)	1, 2	9-1-307	TRS continuous monitor on Flexsorb Stack (BAAQMD Condition # 125 [2], BAAQMD Condition # 126 [2])	250 ppm SO2 at 0% O2 for < 1 hour
57	Thermal Oxidizer for WWTP On-Site equipment	131, 150, 194, 195, 197, 198,	BAAQMD Condition # 11879	Continuous temperature monitor	1400 F minimum outlet temperature to

## II. Equipment

**Table II C - Abatement Devices**

A-#	Description	Source(s) Controlled	Applicable Requirement	Operating Parameters	Limit or Efficiency
		199, 200	(3), (4), BAAQMD Condition # 11882 (3), (4), BAAQMD Condition # 11888 (3), (4), BAAQMD Condition # 13319 (3), (4), 61.349(a)(2)(i) (A)	on oxidizer outlet (BAAQMD Condition # 11879 [5], BAAQMD Condition # 11882 [5], BAAQMD Condition # 11888 [5], BAAQMD Condition # 13319 [5]), 61.354(c)(1)	ensure >98.5 weight.% destruction efficiency, (>95% destruction efficiency for NESHAPS FF)
58	Selective Catalytic Reduction for SG-1032	237	BAAQMD Condition # 16027 [12], 60.44b(a)(1)(i) BAAQMD 10-9 (NSPS Db)	NOx/O2 CEM on SG- 1032 stack (BAAQMD Condition # 16027 [16]), 60.48b(b)(1)	9 ppm NOx, dry, 3% O2, 3-hr average, 0.1 lb/MMBTU (~84 ppmv NOx, 30-day average. NSPS Db, and 24-hr average. BAAQMD 10-9)
60	Selective Catalytic Reduction (SCR) System	1030, 1031	BAAQMD Condition # 19177- (18a), (19b); NSPS Db: 60.44b(e) and 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND# 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas- Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
61	CO Oxidizing Catalyst System	1030, 1031	BAAQMD Condition # 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
62	Selective Catalytic Reduction (SCR) System	1032, 1033	BAAQMD Condition # 19177- (18a), (19b); NSPS Db: 60.44b(e) and 60.44b(l)(1); BAAQMD 10-4 (NSPS Db)	NOx CEM (COND# 19177-38; NSPS Db: 60.48b(b)(1); BAAQMD (NSPS Db)	Natural gas-Firing: 2.5 ppmv NOx, dry, 15% O2, 1 hr average. RFG/Natural gas- Firing: 2.5 ppmv NOx, dry, 15% O2, 3-hr average.
63	CO Oxidizing Catalyst System	1032, 1033	BAAQMD Condition # 19177- (18b), (19d)	CO CEM (COND# 19177-38)	6 ppmv, dry, 15% O2, rolling 3-hr average
176	Baghouse on Brine Saturator Tank (future requirement only if dry salt vs. brine is added)	176	6-301, BAAQMD Condition # 31411 [1]	Visible emissions from Carbon Bin	Ringelmann No. 1 < 3 min/hr

### III. GENERALLY APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. These requirements apply in a general manner to the facility and/or to sources exempt from the requirement to obtain a District Permit to Operate. The District has determined that these requirements will not be violated under normal, routine operations, and that no additional periodic monitoring or reporting to demonstrate compliance is warranted. In cases where a requirement, in addition to being generally applicable, is also specifically applicable to one or more sources, the requirement and the source are also included in Section IV, Source-Specific Applicable Requirements, of this permit.

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board of Directors
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit.

**NOTE:**

There are differences between the current BAAQMD rules and the versions of the rules in the SIP. All sources must comply with both versions of the rule until US EPA has reviewed and approved the District's revision of the regulation.

**Table III**  
**Generally Applicable Requirements**  
**(Not Requiring Routine Monitoring)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD · Regulation 1	General Provisions and Definitions (05/02/2001)	N
SIP · Regulation 1	General Provisions and Definitions (SIP Approved) (10/07/1998)	Y
BAAQMD · Regulation 2 · Rule 1	Permits, General Requirements (08/01/2001)	N
SIP Regulation 2 · Rule 1	Permits, General Requirements (SIP Approved) (11/01/1989)	Y
BAAQMD · Regulation 2 · Rule 2	Permits, New Source Review (05/17/2000)	N
SIP Regulation 2 · Rule 2	Permits, New Source Review (06/15/1994)	Y
BAAQMD · Regulation 2 · Rule 3	Permits, Power Plants (12/19/1979)	Y



### III. Generally Applicable Requirements

**Table III**  
**Generally Applicable Requirements**  
**(Not Requiring Routine Monitoring)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
BAAQMD · Regulation 2 · Rule 4	Permits, Emissions Banking (05/17/2000)	N
SIP Regulation 2 · Rule 4	Permits, Emissions Banking (06/15/1994)	Y
BAAQMD · Regulation 2 · Rule 6	Permits, Major Facility Review (05/02/2001)	N
SIP Regulation 2 · Rule 6	Permits, Major Facility Review (11/03/1993 and 02/01/1995)	Y
BAAQMD · Regulation 2 · Rule 9	Permits, Interchangeable Emission Reduction Credits (04/07/1999)	N
BAAQMD · Regulation 3	Fees (06/05/2002)	N
SIP · Regulation 3	Fees (07/06/1983)	Y
BAAQMD · Regulation 4	Air Pollution Episode Plan (03/20/1991)	N
SIP Regulation 4	Air Pollution Episode Plan (09/07/1988)	Y
BAAQMD · Regulation 5	Open Burning (03/06/2002)	N
SIP · Regulation 5	Open Burning (11/02/1994)	Y
BAAQMD · Regulation 6	Particulate Matter and Visible Emissions (12/19/1990)	Y
BAAQMD · Regulation 7	Odorous Substances (03/17/1982)	N
BAAQMD · Regulation 8 · Rule 1	Organic Compounds, General Provisions (06/15/1994)	Y
BAAQMD · Regulation 8 · Rule 2	Organic Compounds, Miscellaneous Operations (06/15/1994)	Y
BAAQMD Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (11/21/2001)	N
SIP - Regulation 8, Rule 3	Organic Compounds - Architectural Coatings (12/20/1995)	Y
BAAQMD Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (5/15/96)	N
SIP Regulation 8, Rule 4	Organic compounds - General Solvent and Surface Coating Operations (12/20/1995)	Y
BAAQMD · Regulation 8 · Rule 9	Organic Compounds, Vacuum Producing Systems (07/20/1983)	Y
BAAQMD · Regulation 8 · Rule 10	Organic Compounds, Process Vessel Depressurization (07/20/1983)	Y
BAAQMD · Regulation 8 ·	Pressure Relief Devices at New or Modified Sources at	N

### III. Generally Applicable Requirements

**Table III**  
**Generally Applicable Requirements**  
**(Not Requiring Routine Monitoring)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of Requirement</b>	<b>Federally Enforceable (Y/N)</b>
Rule 28-302	Petroleum Refineries (12/17/1997)	
BAAQMD · Regulation 8 · Rule 40	Organic Compounds, Contaminated Soil and UST Removal (12/15/1999)	Y
BAAQMD Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (12/20/95)	N
SIP Regulation 8, Rule 49	Organic Compounds - Aerosol Paint Products (08/21/1991)	Y
BAAQMD Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (7/17/2002)	N
SIP - Regulation 8, Rule 51	Organic Compounds - Adhesive and Sealant Products (05/02/2001)	Y
BAAQMD · Regulation 10 · Subpart A	NSPS Incorporation by Reference, General Provisions (02/16/2000)	Y
BAAQMD · Regulation 11 · Rule 2	Hazardous Pollutants, Asbestos Demolition and Renovation. (10/07/1998)	N
BAAQMD · Regulation 11 · Rule 12	NESHAPS Incorporation by Reference, 40 CFR 61 Subpart FF Benzene Waste (01/05/1994)	Y
BAAQMD Regulation 12, Rule 4	Miscellaneous Standards of Performance - Sandblasting (7/11/1990)	N
SIP Regulation 12, Rule 4	Miscellaneous Standards of Performance – Sandblasting (12/19/1979)	Y
NESHAPS Title 40 Part 61 Subpart M	NESHAPS, Asbestos (11/20/1990)	Y
Title 40 Part 68	Chemical Accident Prevention Provisions (01/31/1994)	Y
Title 40 Part 82 Subpart F	CFC Recycling and Emissions Reduction (05/14/1993)	Y
Title 40 Part 82 Subpart F 82.156	Recycling and Emissions Reductions - Required Practices (08/08/1995)	Y
Title 40 Part 82 Subpart F 82.161	Recycling and Emissions Reductions - Technician Certification (11/09/1994)	Y
Title 40 Part 82 Subpart F 82.166	Recycling and Emissions Reductions - Reporting and Recordkeeping Provisions (08/08/1995)	Y
Title 40 Part 82 Subpart H 82.270(b)	Prohibitions, Halon (03/05/1998)	Y

## IV. SOURCE-SPECIFIC APPLICABLE REQUIREMENTS

The permit holder shall comply with all applicable requirements, including those specified in the BAAQMD and SIP Rules and Regulations and other federal requirements cited below. The requirements cited in the following tables apply in a specific manner to the indicated source(s).

The dates in parenthesis in the Title column identify the versions of the regulations being cited and are, as applicable:

1. BAAQMD regulation(s): The date(s) of adoption or most recent amendment of the regulation by the District Board
2. Any federal requirement, including a version of a District regulation that has been approved into the SIP: The most recent date of EPA approval of any portion of the rule, encompassing all actions on the rule through that date

The full text of each permit condition cited is included in Section VI, Permit Conditions, of this permit. The full language of SIP requirements is on EPA Region 9's website. The address is included at the end of this permit. All other text may be found in the regulations themselves.

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD - Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-510	Area Monitoring	Y	
1-530	Area Monitoring Downtime	Y	
1-540	Area Monitoring Data Examination	Y	
1-542	Area Concentration Excesses	Y	
1-543	Record Maintenance for Two Years	Y	
1-544	Monthly Summary	Y	
<b>BAAQMD Regulation 2, Rule 1</b>	<b>General Requirements (8/1/01)</b>		
2-1-429	Federal Emissions Statement	N	
<b>BAAQMD Regulation 8, Rule 5</b>	<b>Storage of Organic Liquids (11/27/2002)</b>		
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-5-404	Certification	Y	
8-5-502	Tank degassing annual source test requirement	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.2	Source tests for tank degassing equipment	Y	
8-5-604	Determination of applicability	Y	
<b>BAAQMD Regulation 8, Rule 8</b>	<b>Wastewater (Oil-Water) Separators (6/15/94)</b>		
8-8-308	Junction Box	Y	
<b>BAAQMD Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)</b>		
9-1-110	Conditional Exemption, Area Monitoring	Y	
9-1-301	Limitations on Ground Level Concentrations	Y	
9-1-302	General Emission Limitation (applies only when area monitoring for SO <sub>2</sub> is not in compliance)	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries	N	
9-1-313.2	Sulfur Removal and Recovery System	N	
9-1-501	Area Monitoring Requirements	Y	
9-1-604	Ground Level Monitoring	Y	
<b>SIP Regulation 9, Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)</b>		
9-1-313	Sulfur Removal Operations at Petroleum Refineries	Y <sup>1</sup>	
9-1-313.2	Sulfur Removal and Recovery System	Y <sup>1</sup>	
<b>BAAQMD Regulation 9, Rule 2</b>	<b>Inorganic Gaseous Pollutants, Hydrogen Sulfide (10/06/1999)</b>		
9-2-110	Exemptions	N	
9-2-301	Limitations on Hydrogen Sulfide	N	
9-2-501	Area Monitoring Requirements	N	
9-2-601	Ground Level Monitoring	N	
<b>NSPS Title 40 Part 60</b>	<b>General Provisions (03/16/1994)</b>		

<sup>1</sup> This section has been removed from BAAQMD Regulations because it has been superseded. Nevertheless, the source must comply with this regulation until US EPA has reviewed and approved the District's revision of the regulation.

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Subpart A</b>			
40 CFR 60.1	Applicability	Y	
40 CFR 60.2	Definitions	Y	
40 CFR 60.3	Units and Abbreviations	Y	
40 CFR 60.4	Address	Y	
40 CFR 60.5	Determination of Construction or Modification	Y	
40 CFR 60.6	Review of Plans	Y	
40 CFR 60.7(a)	Notification and Recordkeeping	Y	
40 CFR 60.7(b)	Maintain Records-CEMs	Y	
40 CFR 60.8	Performance Tests	Y	
40 CFR 60.9	Availability of Information	Y	
40 CFR 60.11	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 60.12	Circumvention	Y	
40 CFR 60.13	Monitoring Requirements	Y	
40 CFR 60.14	Modification	Y	
40 CFR 60.15	Reconstruction	Y	
40 CFR 60.17	Incorporated by Reference	Y	
40 CFR 60.19	General Notification and Reporting Requirements	Y	
<b>NESHAPS Title 40 Part 61 Subpart A</b>	<b>NESHAPS, General Provisions (03/16/1994)</b>		
40 CFR 61.01	Lists of Pollutants and Applicability of Part 61	Y	
40 CFR 61.02	Definitions	Y	
40 CFR 61.03	Units and abbreviations	Y	
40 CFR 61.04	Address	Y	
40 CFR 61.05	Prohibited Activities	Y	
40 CFR 61.06	Determination of Construction or Modification	Y	
40 CFR 61.07	Application for Approval of Construction or Modification	Y	
40 CFR 61.08	Approval of construction or modification	Y	
40 CFR 61.09	Notification of startup	Y	
40 CFR 61.10	Source reporting and waiver request	Y	
40 CFR 61.12	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 61.13	Emission Tests and Waiver of Emission Tests	Y	
40 CFR 61.14	Monitoring requirements	Y	
40 CFR 61.15	Modification	Y	
40 CFR 61.18	Incorporation by reference	Y	
40 CFR 61.19	Circumvention	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (01/07/1993)</b>		

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.340(a)	Applicability: Chemical Manufacturing, Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.341	Definitions	Y	
40 CFR 61.342	Standards: General	Y	
40 CFR 61.342(b)	Standards: General; Facility with TAB > 10Mg/year in compliance by 4/7/93	Y	
40 CFR 61.342(c)(1)	Standards: General; Treat benzene-containing waste streams in accordance with 61.342(c)(1)(i), 61.342(c)(1)(ii) and 61.342(c)(1)(iii)	Y	
40 CFR 61.342(c)(1)(i)	Standards: General; Remove or destroy benzene in accordance with	Y	
40 CFR 61.342(c)(1)(ii)	Standards: General; Comply with 61.343 through 61.347 for treatment units operated in accordance with 61.342(c)(1)(i)	Y	
40 CFR 61.342(c)(1)(iii)	Standards: General; Comply with 61.343 through 61.347 for treatment units for recycled wastes. Recycled wastes subject to 61.342(c)	Y	
40 CFR 61.342(e)	Standards: General; Alternative to 61.342(c) and 61.342(d)	Y	
40 CFR 61.342(e)(1)	Standards: General; Treat waste with a flow-weighted annual average water content of less than 10% per 61.342(c)(1)	Y	
40 CFR 61.342(e)(2)	Standards: General; Treatment of waste with a flow-weighted annual average water content of 10% or more by volume.	Y	
40 CFR 61.342(e)(2)(i)	Standards: General; [Uncontrolled] 61.342(e)(2) Waste shall not contain more than 6.0 Mg/yr benzene.	Y	
40 CFR 61.342(e)(2)(ii)	Standards: General; Determine 61.342(e)(2) benzene quality per	Y	
40 CFR 61.345(a)	Standards: Containers	Y	
40 CFR 61.345(a)(1)	Standards: Containers--Covers	Y	
40 CFR 61.345(a)(1)(ii)	Standards: Containers--Openings	Y	
40 CFR 61.345(a)(2)	Standards: Containers--Waste Transfer	Y	
40 CFR 61.345(b)	Standards: Containers--Quarterly inspection	Y	
40 CFR 61.345(c)	Standards: Containers--Repairs	Y	
40 CFR 61.355	Test Methods, Procedures, and Compliance Provisions	Y	
40 CFR 61.356	Recordkeeping Requirements	Y	
40 CFR 61.356(a)	Recordkeeping and retention requirements	Y	
40 CFR 61.356(b)	Waste stream records	Y	
40 CFR	Recordkeeping Requirements: Control equipment engineering design	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
61.356(d)			
40 CFR 61.356(e)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(f)	Recordkeeping Requirements: Closed vent system and control device per 61.349--retain for life of device	Y	
40 CFR 61.356(g)	Recordkeeping Requirements: Visual inspection per 61.343 through	Y	
40 CFR 61.356(h)	Recordkeeping Requirements: No detectable emissions tests per 61.343 through 61.347, and 61.349	Y	
40 CFR 61.356(i)	Recordkeeping Requirements: Treatment process or unit per 61.348	Y	
40 CFR 61.356(j)	Recordkeeping Requirements: Control device operation	Y	
40 CFR 61.357	Reporting Requirements	Y	
40 CFR 61.357(d)	Reporting Requirements: Facilities with 10 Mg/yr or more total benzene in waste	Y	
40 CFR 61.357(e)	Reporting Requirements for 61.351 and 61.352 equipment	Y	
40 CFR 61.357(f)	Reporting Requirements for 61.351 control equipment	Y	
<b>NESHAPS Title 40 Part 63 Subpart A</b>	<b>General Provisions of MACT Standards (03/16/1994)</b>		
40 CFR 63.1(a)(1)	Terms used throughout this part are defined in section 63.2	Y	
40 CFR 63.1(a)(2)	This part contains NESHAPS pursuant to Section 112 of Federal Clean Air Act. These NESHAPS are independent of NESHAPS in 40 CFR 61.	Y	
40 CFR 63.1(a)(3)	Emission standard in this part does not replace a more stringent standard in another rule.	Y	
40 CFR 63.1(a)(11)	Submittal postmarked within required timeframe is sufficient.	Y	
40 CFR 63.1(a)(12)	Time periods may be extended if mutually agreed upon, as allowed under 63.9(i)	Y	
40 CFR 63.1(a)(13)	Special provision in another applicable subpart supercedes conflicting provisions in this subpart.	Y	
40 CFR 63.1(a)(14)	Federal enforceability	Y	
40 CFR 63.1(b)(2)	Sources under this subpart may also be required to obtain local permit.	Y	
40 CFR 63.1(c)(4)	If an extension is obtained for specific provision, all other provisions still apply.	Y	
40 CFR 63.1(c)(5)	Applicability	Y	
40 CFR 63.2	Definitions	Y	
40 CFR 63.4(a)(1)	Sources may not operate in violation, unless an extension or exemption has been obtained	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.4(a)(2)	Recordkeeping and reporting requirements must be met	Y	
40 CFR 63.4(a)(3)	Source must also comply with local requirements	Y	
40 CFR 63.4(a)(5)	Source must comply with applicable standards even if Title V permit not issued or updated	Y	
40 CFR 63.4(b)	Circumvention	Y	
40 CFR 63.4(c)	Severability	Y	
40 CFR 63.5(a)	Construction and reconstruction applicability	Y	
40 CFR 63.5(a)(1)	Construction and Reconstruction	Y	
40 CFR 63.5(a)(2)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(1)	Upon construction or reconstruction, subject to standards for new sources	Y	
40 CFR 63.5(b)(3)	Prior written approval of administrator required before constructing or reconstructing	Y	
40 CFR 63.5(b)(4)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(5)	Construction and Reconstruction	Y	
40 CFR 63.5(b)(6)	Equipment added to affected source becomes part of affected source, and is subject to relevant standards for source	Y	
40 CFR 63.5(d)(1)(i)	Construction and Reconstruction	Y	
40 CFR 63.5(d)(1)(ii)	Separate applications for each construction or reconstruction	Y	
40 CFR 63.5(d)(3)	Application for approval of construction	Y	
40 CFR 63.5(d)(4)	Additional information	Y	
40 CFR 63.5(e)	Approval of construction or reconstruction	Y	
40 CFR 63.5(f)(1)	Approval of construction or reconstruction based on local pre-construction review	Y	
40 CFR 63.5(f)(2)	Construction and Reconstruction	Y	
40 CFR 63.6(a)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(b)(3)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(c)(5)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(e)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(1)	Compliance with non-opacity emission standards - applicability	Y	
40 CFR 63.6(f)(2)(i)	Determine compliance with non-opacity standard based on performance	Y	



## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.6(f)(2)(ii)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iii)(A)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iii)(B)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iii)(C)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(2)(iv)	Determine compliance by reviewing records, inspections	Y	
40 CFR 63.6(f)(2)(v)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(f)(3)	Finding of compliance	Y	
40 CFR 63.6(g)	Use of alternative non-opacity emission standard	Y	
40 CFR 63.6(h)(1)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(h)(2)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(h)(6)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(i)	Compliance with Standards and Maintenance Requirements	Y	
40 CFR 63.6(j)	Exemption from compliance with emission standard	Y	
40 CFR 63.10(a)	Recordkeeping and reporting - applicability and general information.	Y	
40 CFR 63.10(b)(1)	Keep records for 5 years.	Y	
40 CFR 63.10(b)(2)(i)	Records of startup, shutdown, or malfunction of operation.	Y	
40 CFR 63.10(b)(2)(ii)	Records of malfunction of air pollution control equipment	Y	
40 CFR 63.10(b)(2)(iv)	Record of actions deviating from startup, shutdown, and malfunction plan.	Y	
40 CFR 63.10(b)(2)(v)	Records to determine conformance with startup, shutdown, and malfunction plan.	Y	
40 CFR 63.10(b)(2)(vi)	Records on monitor malfunction of non-operation	Y	
40 CFR 63.10(b)(2)(vii)	Records of all measurements needed to demonstrate compliance with a standard.	Y	
40 CFR 63.10(b)(2)(viii)	Records of performance tests, monitor evaluations, and opacity/visible emissions observations	Y	
40 CFR 63.10(b)(2)(x)	Records of monitoring system calibration checks.	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.10(d)(4)	Progress reports for extension of compliance	Y	
40 CFR 63.10(d)(5)(i)	Periodic startup, shutdown, and malfunction reports.	Y	
40 CFR 63.10(d)(5)(ii)	Immediate startup, shutdown, and malfunction reports.	Y	
40 CFR 63.10(f)	Waiver of recordkeeping and reporting requirements	Y	
40 CFR 63.11	Control Device Requirements	Y	
40 CFR 63.12	State Authority and Delegation	Y	
40 CFR 63.13	Addresses of EPA Regional Office	Y	
40 CFR 63.14	Incorporation by Reference	Y	
40 CFR 63.15	Availability of Information and Confidentiality	Y	
40 CFR 63.7(a)(3)	Administrator may require a performance test	Y	
40 CFR 63.7(d)	Performance testing facilities.	Y	
40 CFR 63.7(e)(1)	Performance Testing Requirements	Y	
40 CFR 63.7(e)(2)	Performance Testing Requirements	Y	
40 CFR 63.7(e)(4)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(1)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(2)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(3)	Performance Testing Requirements	Y	
40 CFR 63.7(h)(5)	Performance Testing Requirements	Y	
40 CFR 63.8(b)(1)	Conducting monitoring	Y	
40 CFR 63.8(b)(3)	Using more than one monitoring system to measure emissions.	Y	
40 CFR 63.8(c)(1)	Monitoring Requirements	Y	
40 CFR 63.8(c)(1)(i)	Permit holder shall keep necessary parts to repair “routine” malfunctions, as identified in malfunction plan, per 63.6(e)(3)	Y	
40 CFR 63.8(c)(1)(ii)	Monitoring Requirements	Y	
40 CFR 63.8(c)(1)(iii)	Applicable operation and maintenance procedures	Y	
40 CFR 63.8(c)(2)	Monitoring systems shall measure representative emissions, parameters.	Y	
40 CFR 63.8(c)(3)	Monitors shall be installed prior to, or in conjunction with, performance tests under 63.7	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.8(f)(1)	Use of alternative monitoring method	Y	
40 CFR 63.8(f)(2)	Administrator may approve alternative monitoring upon written request	Y	
40 CFR 63.8(f)(3)	If administrator has reasonable grounds to dispute results of alternative monitoring, the administrator may require specific monitoring	Y	
40 CFR 63.8(f)(4)(ii)	Monitoring Requirements	Y	
40 CFR 63.8(f)(5)(i)	Monitoring Requirements	Y	
40 CFR 63.8(f)(5)(iii)	Monitoring Requirements	Y	
40 CFR 63.9(a)	Notification requirements – applicability and general information	Y	
40 CFR 63.9(b)(4)	Notification Requirements	Y	
40 CFR 63.9(b)(5)	Notification Requirements	Y	
40 CFR 63.9(c)	Notification Requirements	Y	
40 CFR 63.9(d)	Notification Requirements	Y	
40 CFR 63.9(i)	Adjustments to time periods or postmark deadlines for submittal and review of required communications	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC</b>	<b>NESHAPS for Petroleum Refineries (06/12/1996)</b>		
40 CFR 63.640(a)	Applicability applies to petroleum refining process units and to related emission points.	Y	
40 CFR 63.640(c)	Applicability and Designation of Affected Source--Includes all emission points at Refinery	Y	
40 CFR 63.640(d)	Applicability and Designation of Affected Source--Exclusions	Y	
40 CFR 63.640(f)	Applicability and Designation of Affected Source	Y	
40 CFR 63.640(g)	Applicability and Designation of Affected Source--Exempt Processes	Y	
40 CFR 63.640(h)	Applicability and Designation of Affected Source--Compliance dates	Y	
40 CFR 63.640(i)	Applicability and Designation of Affected Source--New petroleum refining process unit requirements	Y	
40 CFR 63.640(j)	Applicability and Designation of Affected Source--Changes to existing petroleum refining process units	Y	
40 CFR 63.640(k)	Applicability and Designation of Affected Source--Additional requirements for new or changed sources	Y	
40 CFR 63.640(l)	Applicability and Designation of Affected Source--Additions of equipment (i.e. process vents, storage vessels, etc) in Group 1 sources not subject to 63.640(i) or (k).	Y	
40 CFR	Applicability and Designation of Affected Source--Changes causing Group 2	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.640(m)	emission points to become Group 1 points		
40 CFR 63.640(q)	For overlap of subpart CC with local or State regulations, the permitting authority for the affected source may allow consolidation of the monitoring, recordkeeping, and reporting requirements under this subpart.	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.642	General Standards	Y	
40 CFR 63.642(a)	Apply for a part 70 or part 71 operating permit	Y	
40 CFR 63.642(c)	Table 6 of this subpart specifies the subpart A provisions that apply.	Y	
40 CFR 63.642(d)	Initial performance tests and compliance determinations shall be required only as specified in this subpart	Y	
40 CFR 63.642(e)	Keep copies of all applicable reports and records for at least 5 years, except as otherwise specified in this subpart.	Y	
40 CFR 63.642(f)	All reports required by this subpart shall be sent to the Administrator	Y	
40 CFR 63.642(i)	Existing source owners/operators shall demonstrate compliance with (g) by following procedures in (k) or by following emission averaging compliance approach in (l) for specified emission points and the procedures in (k) for other emission points.	Y	
40 CFR 63.642(k)	Existing source owners/operators may comply, and new sources owners/operators shall comply with the wastewater provisions in 63.647 and comply with 63.654 and is exempt from (g)	Y	
40 CFR 63.647(a)	Wastewater Provisions	Y	
40 CFR 63.647(b)	Wastewater Provisions	Y	
40 CFR 63.647(c)	Wastewater Provisions	Y	
40 CFR 63.654(a)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(e)	Semi-Annual Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(g)	Periodic Reporting and Recordkeeping Requirements	Y	
40 CFR 63.654(h)	Reporting and Recordkeeping Requirements--Other reports	Y	
40 CFR 63.654(i)	Reporting and Recordkeeping Requirements--Recordkeeping	Y	
Appendix Table 1	Hazardous Air Pollutants	Y	
Appendix Table 6	Hazardous Air Pollutants	Y	
<b><u>BAAQMD</u></b>			

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
Generally Applicable Requirements  
which Require Routine Monitoring**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b><u>Condition #20762</u></b>			
<b><u>Part 1</u></b>	Verify true vapor pressure (8-5-117)	<u>Y</u>	
<b><u>Part 2</u></b>	Recordkeeping (8-5-117)	<u>Y</u>	

**Table IV – Refinery  
Generally Applicable Condition**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD Condition # 19466-4	The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]	N	
<b>40 CFR 63</b>	<b>National Emission Standards for Hazardous Air Pollutants for Source Categories: General Provisions; and Requirements for Control Technology Determinations for Major Sources in Accordance with Clean Air Act Sections, Section 112(g) and 112(j); Final Rule</b>		
63.52	Approved process for new and existing affected sources.	Y	
63.52(a)	Sources subject to section 112(j) as of the section 112(j) deadline	Y	
63.52(a)(1)	Submit an application for Title V permit revision	Y	
63.52(e)	Permit application review	Y	
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Combustion Turbines	Y	12/29/03
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Organic Liquids Distribution	Y	12/29/03
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Site Remediation	Y	12/29/03
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters	Y	6/27/04
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Reciprocating Internal Combustion Engines	Y	6/27/04
63.52(e)(1)	Submit a Part 2 MACT application meeting the requirements of 63.53(b) for Process Heaters (that burn hazardous waste)	Y	11/12/05
63.52(h)	Enhanced monitoring	Y	
63.52(h)(i)	MACT emission limitations	Y	

## IV. Source Specific Applicable Requirements

**Table IV – Refinery  
 Generally Applicable Requirements  
 which Require Routine Monitoring**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
63.52(h)(i)(1)	Compliance with all requirements applicable to affected sources, including compliance date for affected sources	Y	
63.53	Application content for case-by-case MACT determination	Y	
63.53(a)	Part 1 MACT application	Y	
63.53(b)	Part 2 MACT application	Y	
<b>40 CFR 63 Subpart UUU</b>	<b>National Emission Standards for Hazardous Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units (4/11/02)</b>	<b>Y</b>	<u>Notifi-cation by 8/9/02; com-pliance by 4/11/05</u>
<b><u>BAAQMD Condition #20620</u></b>			
Part 1	Requirement to apply to incorporate 40 CFR 63, Subpart UUU (40 CFR 63, Subpart UUU)	N	10/11/04
Part 2	Requirement to submit startup, shutdown, and maintenance plan for catalytic cracking units, catalytic reforming units, and sulfur recovery plants (40 CFR 63.1574(f))	Y	4/11/05

## IV. Source Specific Applicable Requirements

**Table IV - A1**  
**Source-Specific Applicable Requirements**  
**Sulfur Plant, Related Sources**  
**S-1 (F-1301A, NAT. GAS)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> Emission Limitation)	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)</b>		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	N	
<b>SIP Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)</b>		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
8.1.018	<b>Permit to Operate S-1 &amp; S-2 SRU (SPIP) and TGCU</b>		
125	1 Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Cleanup Unit and main stack. [Basis Banked POC credits]	Y	
125	2 Deleted.		
125	3 Except during upset conditions, the motor operated valve (MOV-001), which allows Tail Gas from S-1 to flow to the incinerator (F-1302A; A-14), shall not be open when either of the sour gas feed valves (F002, F004) to source (S-1) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: 9-1-312.2, odors]	Y	
125	4 Except during upset conditions, the tail gases from the S-1 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur.	Y	

#### **IV. Source Specific Applicable Requirements**

		[Basis: 9-1-312.2, odors]
18344	1	Deleted. (Application #3902, 1/02)
18344	2	Deleted. (Application #3902, 1/02)



## IV. Source Specific Applicable Requirements

**Table IV - A1**  
**Source-Specific Applicable Requirements**  
**Sulfur Plant, Related Sources**  
**S-1 (F-1301A, NAT. GAS)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
19466	1	The Permit Holder shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H <sub>2</sub> S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H <sub>2</sub> S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]	Y	4/1/04
19466	3	The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]	Y	4/01/03
19466	8	The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> ). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-330]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - A2**  
**Source-Specific Applicable Requirements**  
**Sulfur Plant, Related Sources**  
**S-2 (F-1301B, NAT.GAS)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-330	Sulfur Recovery Units (SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub> Emission Limitation)	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)</b>		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	N	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	N	
<b>SIP - Rule 1</b>	<b>Regulation 9 · Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (05/20/1992)</b>		
9-1-307	Emission Limitations for Sulfur Recovery Plants	Y	
9-1-313	Sulfur Removal Operations at Petroleum Refineries (processing more than 20,000 bbl/day of crude oil)	Y	
9-1-313.2	Sulfur Removal Operations at Petroleum Refineries	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-110.4	Exemptions: Sulfur Recovery Plants and Tail Gas Treating Units	Y	
8.1.018	<b>Permit to Operate S-1 &amp; S-2 SRU (SPIP) and TGCU</b>		
126	1 Reasonable access to 24 hour sulfur production data shall be provided whenever the APCO or his designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: 9-1-313.2]	Y	
126	2 Deleted.		
126	3 Except during upset conditions, the motor operated valve (MOV-003), which allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15), shall not be open when either of the sour gas feed valves (F052, F054) to source (S-2) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: 9-1-313.2]	Y	
126	4 Except during upset conditions, the tail gases from the S-2 Sulfur Recovery Unit shall be routed to and cleaned up by the Flexsorb SE Tail Gas Treatment Unit (A-56). The recovered hydrogen sulfide shall be returned to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: 9-1-313.2]	Y	
18344	1 Deleted. (Application #3902, 1/02)		
18344	2 Deleted. (Application #3902, 1/02)		

## IV. Source Specific Applicable Requirements

**Table IV - A2**  
**Source-Specific Applicable Requirements**  
**Sulfur Plant, Related Sources**  
**S-2 (F-1301B, NAT.GAS)**

<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
19466 1	The Permit Holder shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H <sub>2</sub> S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H <sub>2</sub> S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]	Y	4/01/03
19466 4/01/03	3 The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		Y
19466 8	The Permit Holder shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO <sub>3</sub> and H <sub>2</sub> SO <sub>4</sub> ). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-330]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - A3**  
**Source-Specific Applicable Requirements**  
**CO Furnaces**  
**S-3, S-4 (F-101, F-102)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 2 · Rule 9</b>	<b>Permits, Interchangeable Emission Reduction Credits (04/07/1999)</b>		
2-9-301.1.1	Bankable Interchangeable Emission Reduction Credits -- General	N	
2-9-301.1.2	Bankable Interchangeable Emission Reduction Credits -- General	N	
2-9-301.1.3	Bankable Interchangeable Emission Reduction Credits -- General	N	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-304	Tube Cleaning	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-303.1	Interim Emission Limit for CO Boilers (Federal Requirements)	Y	
9-10-304	Emission Limit for CO Boilers, NOx	N	
9-10-304.1	Emission Limit for CO Boilers, NOx	N	

## IV. Source Specific Applicable Requirements

**Table IV - A3**  
**Source-Specific Applicable Requirements**  
**CO Furnaces**  
**S-3, S-4 (F-101, F-102)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	

### **SIP Regulation 9 – Rule 10 NOx and CO from Petroleum Refinery Boilers, Steam Generators &**

		<b>Process Heaters (01/05/1994)</b>		
9-10-502		Monitoring	Y	
9-10-502.2		Monitoring	Y	
			<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>		
8.2.015		<b>Permit to Operate S-3 (A-52) &amp; S-4 (A-53) Thermal DeNOx System</b>		
11030	1	The start-up of the CO Furnaces (S-3 and S-4) shall not exceed 72 hours. [Basis: Cumulative Increase]	Y	
11030	2	The shutdown of the CO Furnaces (S-3 and S-4) shall not exceed 120 hours. [Basis: Cumulative Increase]	Y	
11030	3	When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]	Y	
11030	4	To demonstrate compliance with Conditions #1 and 2, the start-up time and shutdown time of S-3 and S-4 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
11030	5	Deleted. [Basis: The Owner/Operator has conducted the District approved source test on S-3 and S-4 to demonstrate compliance with Part #3.		

## IV. Source Specific Applicable Requirements

11030                      6                      The Owner/Operator has provided the source test report to the District.]  
 Effective from May 31, 1995, the NOx emissions from the CO Furnaces (S-3 and S-4) shall be abated at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]

### Table IV - A3 Source-Specific Applicable Requirements CO Furnaces S-3, S-4 (F-101, F-102)

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
11030	7	The Owner/Operator shall limit the total consumption of refinery fuel gas plus CO at each source to no more than the following: S-3 CO Furnace: 46.3 Million therms per year (Basis: Cumulative Increase) S-4 CO Furnace: 22.7 Million therms per year (Basis: Cumulative Increase)	N	
19466	5	The particulate emissions from the S-3 and S-4 CO Boilers shall be abated by at least four of the five A-1 through A-5 Electrostatic Precipitators and exhausted through the main stack (P-1). [Basis: Regulation 6-301 and Regulation 6-304].		Y
19466	14	The Owner/Operator shall use the continuous emission monitor required by 4/01/03 Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41		Y

## IV. Source Specific Applicable Requirements

**Table IV - A4**  
**Source-Specific Applicable Requirements**  
**Fluid Catalytic Cracking Unit, Catalyst Regenerator**  
**S-5 (R-702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-107	Combination of Emissions		
1-520	Continuous Emission Monitoring	Y	
1-520.5	SO <sub>2</sub> and Opacity Monitors at Catalyst Regenerators of FCC Units	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-604	Opacity Measurements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)</b>		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO <sub>2</sub>	Y	

#### **IV. Source Specific Applicable Requirements**



## IV. Source Specific Applicable Requirements

**Table IV - A4**  
**Source-Specific Applicable Requirements**  
**Fluid Catalytic Cracking Unit, Catalyst Regenerator**  
**S-5 (R-702)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Claiming Kilns	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466 6	The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03
19466 4/01/03	9 The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed $4.10P^{0.67}$ lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-311]	Y	
19466 4/01/03	15 The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner		Y

## IV. Source Specific Applicable Requirements

**Table IV - A5**  
**Source-Specific Applicable Requirements**  
**Fluid Coker**  
**S-6 (R-902)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-107	Combination of Emissions	Y	
1-520	Continuous Emission Monitoring	Y	
1-520.6	Continuous Emission Monitoring	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
1-604	Opacity Measurements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-302	Opacity Limitation per BAAQMD Regulation 1-520.5	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
6-501	Sampling Facilities and Instruments Required per BAAQMD Regulation 1-520.5	Y	
6-502	Data, Records and Reporting per BAAQMD Regulation 1-520.5	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (03/15/1995)</b>		
9-1-310.1	Catalytic Cracking Unit Emission Limitation of 1000 ppm SO <sub>2</sub>	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A5**  
**Source-Specific Applicable Requirements**  
**Fluid Coker**  
**S-6 (R-902)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-1-310.3	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Kilns	Y	
9-1-502	Emission Monitoring Requirements (Regulations 1-520, 1-522)	Y	
9-1-601	Sampling and Analysis of Gas Streams	Y	
9-1-603	Averaging Times	Y	
9-1-605	Emission Monitoring	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC</b>			
40 CFR 63.640(c)(1)	Applicability of Miscellaneous Process Vents	Y	
40 CFR 63.643(a)	Miscellaneous Process Vent Provisions	Y	
40 CFR 63.643(a)(2)	Control device requirements	Y	
40 CFR 63.643(b)	Boiler or process heater requirements	Y	
40 CFR 63.644(a)	Monitoring Provisions for Miscellaneous Process Vents	Y	
40 CFR 63.644(a)(3)	Boiler or process heater > 44 MW	Y	
40 CFR 63.645(d)	Testing is not required.	Y	
40 CFR 63.645(d)(1)	Test methods and procedures for miscellaneous process vents	Y	
40 CFR 63.645(d)(2)	Test methods and procedures for miscellaneous process vents	Y	
40 CFR 63.645(i)	Test Methods and Procedures for Miscellaneous Process--Compliance determination for visible emissions	Y	

<b>Applicable Condition Date</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable</b>	<b>Future Effective (Y/N)</b>
19466 4/01/03	6 The permit holder shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]		Y
19466 Y 4/01/03	9 The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed 4.10P <sup>0.67</sup> lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These		

#### IV. Source Specific Applicable Requirements

19466 4/01/03	15  The Owner/Operator shall use the continuous opacity monitors required by Y
	records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-311]  Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources: S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator S-6 Fluid Coker, Burner

## IV. Source Specific Applicable Requirements

**Table IV - A6.1**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-7, S-20 and S-34 (F-103, F-104, F-2905)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N

## IV. Source Specific Applicable Requirements

2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

Applicable Condition Date	Regulation Title or Description of	Federally Enforceable	Future Effective (Y/N)
19466      10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O <sub>2</sub> , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03

**Table IV - A6.2**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-24, S-26 and S-35 (F-601, F-801, F-2906)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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## IV. Source Specific Applicable Requirements

### BAAQMD · Regulation 6    Particulate Matter and Visible Emissions (12/19/1990)

6-301	Ringelmann No. 1 Limitation	Y
6-310	Particulate Weight Limitation	Y
6-310.3	Heat Transfer Operation	Y

### BAAQMD · Regulation 9 ·    NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Rule 10    Process Heaters (07/17/2002)

9-10-301	Emission Limit for Facility, NOx	N
9-10-301.1	Units in Start-up or Shutdown	N
9-10-301.2	Units Out of Service	N
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y
9-10-305	Emission Limit for Each Affected Unit, CO	N
9-10-401.1	Control Plan Submittal	N
9-10-501	Initial Demonstration of Compliance	N
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N
9-10-502	Monitoring	N
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N
9-10-502.2	Monitoring	N
9-10-504	Records	N
9-10-504.1	Records	N
9-10-505.1	Reporting Requirements	N
9-10-505.2.1	Reporting Requirements	N
9-10-505.2.2	Reporting Requirements	N
9-10-601	Determination of Nitrogen Oxides	N
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N
9-10-603	Compliance Determination	Y

### SIP Regulation 9 ·    NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Rule 10    Process Heaters (01/05/1994)

9-10-502	Monitoring	Y
9-10-502.2	Monitoring	Y

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N

## IV. Source Specific Applicable Requirements

2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

Applicable Condition Date	Regulation Title or Description of	Federally Enforceable	Future Effective (Y/N)
19466 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O <sub>2</sub> , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03

**Table IV - A6.3**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-13, S-50 (F-702, F-901)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 ·</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp;</b>		



## IV. Source Specific Applicable Requirements

<b>Rule 10</b>	<b>Process Heaters (07/17/2002)</b>	
9-10-112	Limited Exemption, Low Fuel Usage	N
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>	
9-10-112	Limited Exemption, Low Fuel Usage	Y

## IV. Source Specific Applicable Requirements

**Table IV - A8.1**  
**Source-Specific Applicable Requirements**  
**Acid Gas and South Flares**  
**S-16, S-18 (ST-2101AG, ST-2101)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
<b>BAAQMD Regulation 12-11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/03)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	6/4/04
12-11-501	Vent Gas Flow Monitoring	N	12/4/04
12-11-502	Vent Gas Composition Monitoring	N	
12-11-502.3	Vent Gas Composition Monitoring	N	03/4/04
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	09/4/04
12-11-507	Video Monitoring	N	12/4/03

## IV. Source Specific Applicable Requirements

**Table IV - A8.1**  
**Source-Specific Applicable Requirements**  
**Acid Gas and South Flares**  
**S-16, S-18 (ST-2101AG, ST-2101)**

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
20806		<b>Permit Conditions for S-16, S-17, S-18, and S-19</b>		
20806	1	The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using a gas flow meters for S-16, S-18 and S-19, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]	Y	12/01/04
20806	2	The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis Regulation 2-6-409.2]	Y	12/01/04
20806	3.	The Owner/Operator shall use flares S-16, S-17, S-18, S-19 only to burn process upset gases or fuel gas that is released to it as a result of relief valve leakage or other emergency malfunctions. [Basis: 40 CFR 60.104(a)(1)]	Y	12/01/04
20806 12/01/04	4.	The Owner/Operator shall record in a District- approved log every flaring event.  This log shall be made available to the District upon request and keep for a period of 5 years from the date of record. [Basis: 40 CFR 60.104(a)(1)]		Y

## IV. Source Specific Applicable Requirements

**Table IV - A8.2**  
**Source-Specific Applicable Requirements**  
**Butane Flare**  
**S-17 (ST-1701)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 12-11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/03)</b>		
12-11-110.	Exemption, Organic Liquid Storage and Distribution	N	
20806	<b>Permit Conditions for S-16, S-17, S-18, and S-19</b>		
20806	1 The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using a gas flow meters for S-16, S-18 and S-19, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]	Y	12/01/04
20806	2 The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis Regulation 2-6-409.2]	Y	12/01/04
20806	3. The Owner/Operator shall use flares S-16, S-17, S-18, S-19 only to burn process upset gases or fuel gas that is released to it as a result of relief valve leakage or other emergency malfunctions. [Basis: 40 CFR 60.104(a)(1)]	Y	12/01/04
20806 12/01/04	4. The Owner/Operator shall record in a District- approved log every flaring event.  This log shall be made available to the District upon request and keep for a period of 5 years from the date of record. [Basis: 40 CFR 60.104(a)(1)]		Y

## IV. Source Specific Applicable Requirements

**Table IV - A9**  
**Source-Specific Applicable Requirements**  
**North Flare**  
**S-19 (ST-2103)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP· Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>			
<b>Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>BAAQMD Regulation 12-11</b>	<b>Flare Monitoring at Petroleum Refineries (06/04/03)</b>		
12-11-401	Flare Data Reporting Requirements	N	
12-11-402	Flow Verification Report	N	6/4/04
12-11-501	Vent Gas Flow Monitoring	N	12/4/04
12-11-502	Vent Gas Composition Monitoring	N	

## IV. Source Specific Applicable Requirements

12-11-502.3	Vent Gas Composition Monitoring	N	03/4/04
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### Table IV - A9 Source-Specific Applicable Requirements North Flare S-19 (ST-2103)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
12-11-503	Pilot Monitoring	N	
12-11-504	Pilot and Purge Gas Monitoring	N	
12-11-505	Recordkeeping Requirements	N	
12-11-506	General Monitoring Requirements	N	
12-11-506.1	Periods of Inoperation of Vent Gas Monitoring	N	09/4/04
12-11-507	Video Monitoring	N	12/4/03
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)	Method 11 shall be used to verify compliance with 60.104(a)(1)	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	

## IV. Source Specific Applicable Requirements

**NSPS Title 40 Part 60**      **NSPS 40 Part 60 Appendix B (09/30/1999)**  
**Appendix B**

Performance Specification 7      H2S Continuous Emission Monitoring Systems

Y

## IV. Source Specific Applicable Requirements

**Table IV - A9**  
**Source-Specific Applicable Requirements**  
**North Flare**  
**S-19 (ST-2103)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>NSPS 40 Part 60 Appendix F (02/11/1991)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	
20806	<b>Permit Conditions for S-16, S-17, S-18, and S-19</b>		
20806	1 The Flares, S-16, S-17, S-18, S-19 should be inspected as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using gas flow meters, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6-409.2]	Y	12/01/04
20806	2 The operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S-18, S-19, and all instances which operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis: Regulation 2-6-409.2]	Y	12/01/04
20806	3. The Owner/Operator shall use flares S-16, S-17, S-18, S-19 only to burn process upset gases or fuel gas that is released to it as a result of relief valve leakage or other emergency malfunctions. [Basis: 40 CFR 60.104(a)(1)]	Y	12/01/04
20806 12/01/04	4. The Owner/Operator shall record in a District- approved log every flaring event.  This log shall be made available to the District upon request and keep for a period of 5 years from the date of record. [Basis: 40 CFR 60.104(a)(1)]		Y



## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	

## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Title 40 Part 60 Appendix B</b>	<b>NSPS 40 Part 60 Appendix B (09/30/1999)</b>		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>NSPS 40 Part 60 Appendix F (02/11/1991)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-501	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>

## IV. Source Specific Applicable Requirements

Part 4	Recordkeeping (Regulation 2-9-303.3)	N
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**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date												
8.2.008		Permit to Operate Clean Fuels Project														
10574	13	The refinery fuel gas combusted in any CFP equipment shall not exceed any of the following: (a) 100 ppmv H2S, averaged over a 24-hour calendar day and (b) 160 ppm H2S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]	Y													
10574	14	The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y													
10574	15	The Permit Holder shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22 and S-220). [Basis: Monitoring and Records].	Y													
10574	16	The Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]	Y													
10574	17	All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y													
10574	18	Total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP shall not exceed the following annual limits: <table><tr><td>Pollutant</td><td>Ton/year)</td></tr><tr><td>NOx</td><td>17.11 (S-220 only)</td></tr><tr><td>CO</td><td>134.904</td></tr><tr><td>SO2</td><td>59.358</td></tr><tr><td>PM10</td><td>26.981</td></tr><tr><td>POC</td><td>15.514</td></tr></table> (Note: NOx emission increases from new S-220 Hot Oil System only. The two modified combustion sources (S-21 and S-22) will not increase	Pollutant	Ton/year)	NOx	17.11 (S-220 only)	CO	134.904	SO2	59.358	PM10	26.981	POC	15.514	Y	
Pollutant	Ton/year)															
NOx	17.11 (S-220 only)															
CO	134.904															
SO2	59.358															
PM10	26.981															
POC	15.514															

#### **IV. Source Specific Applicable Requirements**

NOx emissions from the baseline total of 195.3 and 191.8 tons per year, respectively.) [Basis: BACT, Cumulative Increase, New Source Review trigger, Offsets, SO2 Contemporaneous offset credits for SO2 and PMIO in Application #18888].

## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	19	Deleted.		
10574	20	The Permit Holder shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be: NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance CO: 0.0200 lb/MMBtu POC: 0.0023 lb/MMBtu SO2: 0.0069 lb/MMBtu PM10: 0.0040 lb/MMBtu The results shall be retained on site for a period of at least five years and made available to District staff upon request. [Basis: BACT, Cumulative Increase]	Y	
10574	21	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S- 21, S-22 and S-220) or the three abatement devices (A- 43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
10574	22	For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]	Y	
10574	31	For the S-21 and S-22 furnaces, the emissions of nitrogen oxides based on CEM data shall not exceed 60 ppmv, dry, corrected to 3% oxygen, ( 0.0708 lb/MMBtu) averaged over any consecutive 24-hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the emissions of nitrogen oxides shall not exceed 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]	Y	
10574	32	For the S-21 and S-22 furnaces, the emissions of CO shall not exceed 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	33	Sources S-21 and S-22 shall be equipped with low NOx burners. The low NOx burners systems shall be operated in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]	Y	
10574	37	The total combined heat input for S-21 and S-22 shall not exceed 106 million therms (10.6 trillion Btus) any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]	Y	
10574	38	The maximum firing rate of the S-21 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
10574	39	The maximum firing rate of the S-22 Hydrogen Reforming Furnace shall not exceed 614 million Btu per hour for all fuels combusted at the source. [Basis: Cumulative Increase, Toxics]	Y	
10574	40	Deleted.		
10574	41	Deleted.		
10574	F	Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. For condition number 15, the CEM for the Refinery fuel gas shall include a data-logging device that averages the CEM concentration readings over the 24-hour time period (calendar day). [Basis: BACT]	Y	
10574	G	The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: Fuel usage type and amount for: S-220 Hot Oil System S-21 Hydrogen Reformer Furnace S-22 Hydrogen Reformer Furnace CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour Average); Fuel gas total reduced sulfur Concentration Average) Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis BACT]	Y	
10574	H	Any process vessel depressurization shall be vented to a control device with tan overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
10574	I	Deleted.		
19466	10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources	Y	4/01/03

#### **IV. Source Specific Applicable Requirements**

S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O<sub>2</sub>, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]



## IV. Source Specific Applicable Requirements

**Table IV - A10**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-21, S-22 (F-301, F-351)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
19466	14	<p>The Owner/Operator shall use the continuous emission monitor required by 4/01/03</p> <p>Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring]</p> <p>CO Furnaces: S-3, S-4.</p> <p>Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220</p> <p>Steam Generators: S-40, S-41</p>		Y

## IV. Source Specific Applicable Requirements

**Table IV - A11**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-23 (F-401)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	

## IV. Source Specific Applicable Requirements

**Table IV - A11**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-23 (F-401)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>			
<b>Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	

#### **IV. Source Specific Applicable Requirements**

40 CFR 60.107(f)	Certification of 60.107(e) report	Y
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## IV. Source Specific Applicable Requirements

**Table IV - A11**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-23 (F-401)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/30/1999)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (02/11/1991)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (4/7/99)	Federally Enforceable (Y/N)
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N
Part 4	Recordkeeping (Regulation 2-9-303.3)	N

## IV. Source Specific Applicable Requirements

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.032		<b>Permit to Operate S-23 (F-401) Gas/Oil Hydrocracking Furnace</b>		
14138	1	Emissions of NMHC from S-23 (furnace F-401) shall not exceed 10 lb/day. [Basis: BACT]	Y	
14318	2	Emission of NOx shall not exceed 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]	Y	
14318	3	NOx and oxygen shall be continuously monitored (per Manual of Procedures). [Basis: Cumulative Increase]	Y	
14318	4	Maximum firing of furnace shall not exceed 200 MMBtu/hr heat input for any one-hour period and 185 MMBtu/hr average for a 24-hour period based on the gross heating value of the fuel gas. This 24-hour period shall be midnight to midnight. [Basis: Cumulative Increase]	Y	
14318	5	As per Regulation 10-14, hydrogen sulfide shall be continuously monitored and shall not exceed 160 ppm (dry). [Basis: Cumulative Increase, BAAQMD 10-14]	Y	
14318	6	All data pertaining to (1), (2), (3), (4), above shall be readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]	Y	
19466	10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03
19466	14	The Owner/Operator shall use the continuous emission monitor required by 4/01/03  Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41		Y

## IV. Source Specific Applicable Requirements

### Table IV - A12 Source-Specific Applicable Requirements

Process Furnaces S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)			
Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 1      General Provisions and Definitions (05/02/2001)</b>			
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP· Regulation 1      General Provisions and Definitions (SIP Approved) (10/07/1998)</b>			
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6      Particulate Matter and Visible Emissions (12/19/1990)</b>			
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10      NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>			
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	

## IV. Source Specific Applicable Requirements

**Table IV - A12**  
**Source-Specific Applicable Requirements**  
**Process Furnaces**  
**S-25, S-30, S-31, S-32, S-33 (F-701, F-2901, F-2902, F-2903, F-2904)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NO <sub>x</sub> , CO, and O <sub>2</sub> ) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and	N



## IV. Source Specific Applicable Requirements

	Emission Rate	
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

Applicable Condition Date	Regulation Title or Description of	Federally Enforceable	Future Effective (Y/N)
19466 10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O <sub>2</sub> , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03
19466 14	The Owner/Operator shall use the continuous emission monitor required by 4/01/03  Regulation 9, Rule 10, to monitor compliance for all NO <sub>x</sub> limits at the following sources: [Basis: Monitoring]  CO Furnaces: S-3, S-4.  Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220  Steam Generators: S-40, S-41		Y

## IV. Source Specific Applicable Requirements

**Table IV - A13.1**  
**Source-Specific Applicable Requirements**  
**Waste Heat Boilers**  
**S-36, S-48, S-56 (SG-701, SG-1031, SG-401)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	
<b>Applicable Condition Date</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable</b>	<b>Future Effective (Y/N)</b>
19466 12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A13.2**  
**Source-Specific Applicable Requirements**  
**Turbines**

**S-43, S-44, S-46 (GT-401, GT-701, GT-1031)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 9 · Rule 9</b>	<b>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)</b>		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours between May 1 and October 31.	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.1	NOx Emission Limit for Gas Turbines 0.3 MW to less than 10 MW	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
<b>Applicable Condition Date</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable</b>	<b>Future Effective (Y/N)</b>
19466 11	The Permit Holder shall conduct a semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NOx not to exceed 55 ppmv, dry, at 15% O <sub>2</sub> , fired on refinery fuel gas. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-9-301.1]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - A14.1**  
**Source-Specific Applicable Requirements**  
**Waste Heat Boiler**  
**S-37 (SG-702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 2 · Rule 4</b>	<b>Permits, Emissions Banking (05/17/2000)</b>		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A14.1**  
**Source-Specific Applicable Requirements**  
**Waste Heat Boiler**  
**S-37 (SG-702)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.016		<b>Permit to Operate S-37(SG-702 Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine</b>		
16386	1	Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
16386	4	The emissions from the S-37 Steam Generator Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all times in which it is in operation, except for the following: <Permanency of Contemporaneous Banking Credit, Offsets> A. During periods of startups and shutdowns. B. Infrequent periods not to exceed 45 days in any consecutive three year period.	Y	
16386	5	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, offsets>	Y	
16386	6	Valero Refining Company shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. <Regulation 9, Rule 9 enforceability of contemporaneous banking credit, Offsets>	Y	
16386	7	The total emissions of nitrogen oxides (NOx) emissions for S-37 Steam Generator shall not exceed 23.851 tons per calendar year. <Permanency of Actual Emissions Reduction for S-237>	Y	
16386	8	To demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log for S-37. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. a. Daily usage of refinery fuel gas at S-37, in cubic feet b. Daily usage of refinery fuel gas at S-45, in cubic feet c. Daily HHV of refinery fuel gas d. Daily mass emissions from the combined exhaust, as measured by the CEM e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data f. Computation of monthly and annual mass emissions from S-37 g. Days of startup, shutdown and S-37 singular operations. <Banked POC credit requirements>	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A14.2**  
**Source-Specific Applicable Requirements**  
**Turbine**  
**S-45 (GT-702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP· Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 2 · Rule 4</b>	<b>Permits, Emissions Banking (05/17/2000)</b>		
2-4-301	Bankable Reductions	Y	
2-4-301.1	Bankable Reductions	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 9 · Rule 9</b>	<b>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)</b>		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours between May 1 and October 31.	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A14.2**  
**Source-Specific Applicable Requirements**  
**Turbine**  
**S-45 (GT-702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	
9-9-401	Certification, Efficiency	Y	
9-9-501	Monitoring and Recordkeeping Requirements	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-603	Continuous Emission Monitoring	Y	
9-9-604	Determination of HHV and LHV	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A14.2**  
**Source-Specific Applicable Requirements**  
**Turbine**  
**S-45 (GT-702)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.016		<b>Permit to Operate S-37(SG-702 Waste Heat Boiler and S-45 (GT-702) Process Gas Turbine</b>		
16386	1	Except during startup and shutdown, the combined NOx emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, shall not exceed a concentration of 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
16386	2	Deleted		
16386	3	Except during startup and shutdown, the emissions from the S-45 Gas Turbine shall be abated by the A-51 Selective Catalyst Reduction System at all times in which it is in operation. <Permanency of Contemporaneous Banking Credit, Offsets>	Y	
16386	5	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the units. <Permanency of Contemporaneous Banking Credit, offsets>	Y	
16386	6	Valero Refining Company shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NOx) emissions from this combined system consisting of S-45 and S-37. < enforceability of contemporaneous banking credit,	Y	
16386	8	To demonstrate compliance with the above conditions, the following records shall be maintained in a District approved log for S-37 and S-45. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. a. Daily usage of refinery fuel gas at S-37, in cubic feet b. Daily usage of refinery fuel gas at S-45, in cubic feet c. Daily HHV of refinery fuel gas d. Daily mass emissions from the combined exhaust, as measured by the CEM e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data f. Computation of monthly and annual mass emissions from S-37 g. Days of startup, shutdown and S-37 singular operations. <Banked POC credits requirements>	Y	



## IV. Source Specific Applicable Requirements

**Table IV - A15**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-40 (SG-2301)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD • Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP • Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD • Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD • Regulation 9 • Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	

## IV. Source Specific Applicable Requirements

**Table IV - A15**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-40 (SG-2301)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>			
<b>Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	

#### **IV. Source Specific Applicable Requirements**

40 CFR 60.107(f)	Certification of 60.107(e) report	Y
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## IV. Source Specific Applicable Requirements

**Table IV - A15**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-40 (SG-2301)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/30/1999)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (02/11/1991)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

BAAQMD Regulation 2, Rule 9	Interchangeable Emission Reduction Credits (4/7/99)	Federally Enforceable (Y/N)
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
Part 1	Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)	N
Part 2	Quarterly and annual reports (Regulation 2-9-303.3)	N
Part 3	Annual submittal of documents (Regulation 2-9-303.3)	N

#### **IV. Source Specific Applicable Requirements**

<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>
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## IV. Source Specific Applicable Requirements

**Table IV - A15**  
**Source-Specific Applicable Requirements**  
**Steam Generator, S-40 (SG-2301)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.007		<b>Permit to Operate S-209, 210, 211 MTBE Process Unit</b>		
9296	D1	For the S-40 Steam Boiler: The steam boiler (S-40) shall be equipped with Low NOx burners and flue gas recirculation. [BAAQMD 9-10, Offsets, Cumulative Increase]	Y	
9296	D2	For the S-40 Steam Boiler: The NOx concentration shall not exceed 30 ppmv, dry, corrected to 3 oxygen, as averaged over any 12-month period. [Basis: Offsets]	Y	
9296	D3	For the S-40 Steam Boiler: The CO concentration shall not exceed 400 ppmv, dry, corrected to 3 % oxygen. [BAAQMD 9-10, Cumulative Increase]	Y	
9296	D4	The scrubber system upstream of S-40 Boiler shall have an annualized daily averaged (calendar year) total reduced sulfur concentration not to exceed 51 ppm, by volume. [Offsets]	Y	
9296	D6	For the S-40 Steam Boiler: Permit Holder shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in Condition number 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Banked POC credits]	Y	
9296	D7	The maximum firing rate of the S-40 Utility package Boiler shall not exceed 218 million Btu per hour. (Cumulative Increase, Toxics)	Y	
9296	D8	For S-40, the Permit holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. (BARCT: Regulation 9-10, Monitoring, Records)	Y	
9296	D9	The S-40 Steam Boiler shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. [Monitor and Recorder]	Y	
9296	D10	For the S-40 Steam Boiler: The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: CEM data and CEM indicated excesses; Fuel gas H2S concentration (24-hour average); Fuel gas total reduced sulfur concentration (24 hour Average) Fuel gas type and fuel usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual daily firing rate (Btu/day) [Cumulative Increase, Offsets]	Y	
9296	D11	Deleted.		
19466	10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O2, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03

#### IV. Source Specific Applicable Requirements

19466	14	The Owner/Operator shall use the continuous emission monitor required by 4/01/03 Regulation 9, Rule 10, to monitor compliance for all NOx limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220	Y
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## IV. Source Specific Applicable Requirements

**Table IV - A16**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-41 (SG-2302)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	



## IV. Source Specific Applicable Requirements

**Table IV - A16**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-41 (SG-2302)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-501	Initial Demonstration of Compliance	N	Various
9-10-501.1	Initial Demonstration of Compliance	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
<b>BAAQMD · Regulation 10 · Subpart J</b>	<b>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A16**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-41 (SG-2302)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NSPS Title 40 Part 60 Appendix B	NSPS 40 Part 60 Appendix B (09/30/1999)		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
NSPS Title 40 Part 60 Appendix F	NSPS 40 Part 60 Appendix F (02/11/1991)		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

## IV. Source Specific Applicable Requirements

19466	10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O <sub>2</sub> , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03
19466	14	The Owner/Operator shall use the continuous emission monitor required by Regulation 9, Rule 10, to monitor compliance for all NO <sub>x</sub> limits at the following sources: [Basis: Monitoring] CO Furnaces: S-3, S-4. Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220 Steam Generators: S-40, S-41	Y	

**Table IV - A17**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-42 (F-1060)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year)	N	
9-10-306	Small Unit Requirements	Y	
9-10-306.2	Small Unit Requirements	Y	
9-10-402	Control Plan Submittal, Small Units	N	
9-10-502.2	Monitoring	N	
9-10-504.2	Records	N	
9-10-505	Reporting Requirements	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-605	Tune-up Procedures	Y	
<b>SIP Regulation 9 ·</b>	<b>NO<sub>x</sub> and CO from Petroleum Refinery Boilers, Steam Generators, &amp;</b>		

## IV. Source Specific Applicable Requirements

<b>Rule 10</b>	<b>Process Heaters (01/05/1994)</b>	
9-10-112	Limited Exemption, Low Fuel Usage (< 90,000 Therms/year)	Y
9-10-402	Control Plan Submittal, Small Units	Y
9-10-502.2	Monitoring	Y

## IV. Source Specific Applicable Requirements

**Table IV - A18**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-173 (F-902)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirement	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	2
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	

## IV. Source Specific Applicable Requirements

9-10-504.1	Records	N
9-10-505.1	Reporting Requirements	N
9-10-505.2.1	Reporting Requirements	N
9-10-505.2.2	Reporting Requirements	N

**Table IV - A18**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-173 (F-902)**

9-10-601	Determination of Nitrogen Oxides	Y
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	Y
9-10-603	Compliance Determination	Y

**SIP Regulation 9 · Rule 10**      **NOx and CO from Petroleum Refinery Boilers, Steam Generators, & Process Heaters (01/05/1994)**

9-10-502	Monitoring	Y
9-10-502.2	Monitoring	Y

**BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)**  
**Subpart J**

10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y
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**NSPS Title 40 Part 60 Subpart J**      **NSPS Subpart J for Petroleum Refineries (08/17/1989)**

40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y
40 CFR 60.106(a)	Test Methods and Procedures	Y
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y
40 CFR 60.107(e)	Semi-annual compliance report	Y
40 CFR 60.107(f)	Certification of 60.107(e) report	Y

**NSPS Title 40 Part 60 Appendix B**      **NSPS 40 Part 60 Appendix B (09/30/1999)**

Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y
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<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General	N

## IV. Source Specific Applicable Requirements

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
	Provisions	
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

**Table IV - A18**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-173 (F-902)**

<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.1.027	<b>Permit to Operate S-173 (F-902) Boiler-Steam Superheater</b>		
254	1 The NOx emission shall not exceed 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]	Y	
254	2 Furnace F-1060 shall not operate for more than 30 days per year. [Basis: Cumulative Increase]	Y	
254	3 A District approved Source Test shall be conducted within 30 days after start-up and every six months thereafter to determine compliance with condition #1. [Basis: Cumulative Increase]	Y	
254	4 Any "banking" application submitted relative to this permit shall, at a minimum, include an analysis of the entire coker, specifically emissions associated with "running normal rates for longer periods."	Y	

#### IV. Source Specific Applicable Requirements

19466	10	<p>[Basis: Cumulative Increase]</p> <p>The Permit Holder shall conduct a District-approved source test on a semi-annual Y 4/01/03 basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O<sub>2</sub>, operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]</p>
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## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 3</b>	<b>Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)</b>		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-301	Emission Limit for Facility, NOx	N	
9-10-301.1	Units in Start-up or Shutdown	N	
9-10-301.2	Units Out of Service	N	

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-10-303	Interim Emission Limit for Facility (Federal Requirements)	Y	
9-10-305	Emission Limit for Each Affected Unit, CO	N	
9-10-401.1	Control Plan Submittal	N	
9-10-501	Initial Demonstration of Compliance	N	
9-10-501.2	Initial Demonstration of Compliance (no later than 6 months prior to compliance dates for BAQMD 9-10-301, -304, and -305)	N	
9-10-502	Monitoring	N	
9-10-502.1	Monitoring (CEMS for NOx, CO, and O2) or Equivalent Verification	N	
9-10-502.2	Monitoring	N	
9-10-504	Records	N	
9-10-504.1	Records	N	
9-10-505.1	Reporting Requirements	N	
9-10-505.2.1	Reporting Requirements	N	
9-10-505.2.2	Reporting Requirements	N	
9-10-601	Determination of Nitrogen Oxides	N	
9-10-602	Determination of Carbon Monoxide and Stack-Gas Oxygen	N	
9-10-603	Compliance Determination	Y	
<b>SIP Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (01/05/1994)</b>		
9-10-502	Monitoring	Y	
9-10-502.2	Monitoring	Y	
<b>BAAQMD · Regulation 10 · Subpart Db</b>	<b>Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)</b>		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
<b>BAAQMD · Regulation 10 · Subpart J</b>	<b>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart Db</b>	<b>NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)</b>		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(a)	NOx Standard	Y	
40 CFR 60.44b(a)(1)(i)	NOx Standard for Natural Gas and Distillate Oil, Low Heat Release Rate	Y	
40 CFR 60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(e)(1)	Initial compliance test procedures	Y	
40 CFR 60.46b(e)(3)	30 day rolling average	Y	
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides	Y	
	Complies with 60.48b(b)(1).		
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO <sub>2</sub> Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NO <sub>x</sub> monitors measure 1-hour average NO <sub>2</sub> emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(e)(2)	Span Values for NO <sub>x</sub> .	Y	
40 CFR 60.48b(e)(3)	Span Values for NO <sub>x</sub> rounded to nearest 500ppm.	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NO <sub>x</sub> data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(3)	30-day Average NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NO <sub>x</sub> standard	Y	
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(h)(4)	Excess Emissions Definition	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO <sub>2</sub> emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H <sub>2</sub> S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
<b>NSPS Title 40 Part 60 Appendix B</b>	<b>NSPS 40 Part 60 Appendix B (09/30/1999)</b>		
Performance Specification 7	H <sub>2</sub> S Continuous Emission Monitoring Systems	Y	
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>NSPS 40 Part 60 Appendix F (02/11/1991)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-301	Bankable Interchangeable Emission Reduction Credits – General Provisions	N
2-9-302	Use of IERC's	N
2-9-303	Alternative Compliance Plan using IERC's	N
2-9-304	Restrictions on the Use of IERC's	N
2-9-305	Conversion of an ERC to an IERC	N
2-9-306	Environmental Benefit Surcharge	N

#### IV. Source Specific Applicable Requirements

<b>BAAQMD Regulation 2, Rule 9</b>	<b>Interchangeable Emission Reduction Credits (4/7/99)</b>	<b>Federally Enforceable (Y/N)</b>
2-9-401	IERC Application	N
2-9-401.4	Use of IERC's in lieu of compliance with the BARCT rule(s) specified in Section 2-9-302.	N
2-9-402	Complete IERC Banking Application	N
2-9-501	Monitoring and Record Keeping	N
2-9-502	Alternative Compliance Plan Record Keeping and Reporting	N
2-9-601	Emission Reduction Calculations - General Requirements	N
2-9-602	Emission Reduction Calculations – Baseline Throughput and Emission Rate	N
2-9-603	Methodology for Calculating IERCs from a Stationary Source	N
2-9-604	Procedure to Convert an ERC to an IERC	N
2-9-605	Calculation Procedure to Determine the Required Amount of IERC's for BARCT Compliance	N
<b>BAAQMD Condition # 19329</b>		
<i>Part 1</i>	<i>Hourly firing limits (Regulation 9, Rule 10, Cumulative Increase)</i>	<i>N</i>
<i>Part 2</i>	<i>Quarterly and annual reports (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 3</i>	<i>Annual submittal of documents (Regulation 2-9-303.3)</i>	<i>N</i>
<i>Part 4</i>	<i>Recordkeeping (Regulation 2-9-303.3)</i>	<i>N</i>

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	4	All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
10574	5	Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
10574	6	Deleted.		
10574	7	All flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [Basis: BACT, Offsets, Cumulative Increase, Toxics].	Y	
10574	10	The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	Y	
10574	12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1025, S-220, S-227, S-1007, S-1011, S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]	Y	
10574	13	The refinery fuel gas combusted in any CFP equipment shall not exceed any of the following: (a) 100 ppmv H <sub>2</sub> S, averaged over a 24-hour calendar day and (b) 160 ppm H <sub>2</sub> S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date												
8.2.008		<b>Permit to Operate Clean Fuels Project</b>														
10574	14	The refinery fuel gas combusted in any CFP equipment shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT>	Y													
10574	15	Permit Holder shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H2S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22 and S-220). [Basis: Monitoring and Records].	Y													
10574	16	Permit Holder shall calculate and record the 24-hour average H2S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, Permit Holder shall report for S-220, S-21 and S-22: (a) the daily fuel consumption, (b) daily averaged H2S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H2S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237, Boiler BACT]	Y													
10574	17	All new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H2S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]	Y													
10574	18	<div> <div>Total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP shall not exceed the following annual limits:</div> <table> <tr> <td>Pollutant</td> <td>Tons/yeat</td> </tr> <tr> <td>NOx</td> <td>17.11 (S-220 only)</td> </tr> <tr> <td>CO</td> <td>134.904</td> </tr> <tr> <td>SO2</td> <td>59.358</td> </tr> <tr> <td>PM10</td> <td>26.981</td> </tr> <tr> <td>POC</td> <td>15.514</td> </tr> </table> <div>           (Note: NOx emission increases from new S-220 Hot Oil System only. The two modified combustion sources (S-21 and S-22) will not increase NOx emissions from the baseline total of 195.3 and 191.8 tons per year, respectively.) [Basis: New Source Review trigger, BACT, Cumulative Increase,. Offsets, SO2 Contemporaneous offset credits for S02 and PMIO in Application #18888]         </div> </div>	Pollutant	Tons/yeat	NOx	17.11 (S-220 only)	CO	134.904	SO2	59.358	PM10	26.981	POC	15.514	Y	
Pollutant	Tons/yeat															
NOx	17.11 (S-220 only)															
CO	134.904															
SO2	59.358															
PM10	26.981															
POC	15.514															
10574	19	The three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Monitoring and records]	Y													

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	20	Permit Holder shall calculate and totalize NOx, CO, POC, SO2 and PM10 emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be: NOx: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance CO: 0.0200 lb/MMBtu POC: 0.0023 lb/MMBtu SO2: 0.0069 lb/MMBtu PM10: 0.0040 lb/MMBtu The results shall be retained on site for a period of at least five years and made available to District staff upon request. [Basis: BACT, Cumulative Increase]	Y	
10574	21	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S- 21, S-22 and S-220) or the three abatement devices (A- 43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]	Y	
10574	22	For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]	Y	
10574	23	Except during startup and shutdown, emissions of nitrogen oxides from the S-220 Hot Oil System shall not exceed 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]	Y	
10574	24	For the S-220 Hot Oil System, CO emissions shall not exceed 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]	Y	
10574	25	S-220 shall be abated at all times by A-45 Selective Catalytic Reduction System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]	Y	
10574	26	Except during periods of startup and shutdown, ammonia emissions (ammonia slip) from the SCR unit (A-45) shall not exceed 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
10574	27	For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and O2. [Basis: Monitoring]	Y	



#### **IV. Source Specific Applicable Requirements**

## IV. Source Specific Applicable Requirements

**Table IV - A19**  
**Source-Specific Applicable Requirements**  
**Process Furnace**  
**S-220 (F-4460)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	29	The total combined heat input for S-220 shall not to exceed 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]	Y	
10574	30	The maximum firing rate of the S-220 MRU Hot Oil Furnace shall not exceed 351 million Btu per hour. [Basis: Cumulative Increase, Toxics]	Y	
10574	F	Each CEM shall be installed, maintained, calibrated and operated in accordance with all applicable District regulations. For condition number 15, the CEM for the Refinery fuel gas shall include a data-logging device that averages the CEM concentration readings over the 24-hour time period (calendar day). [Basis: BACT]	Y	
10574	G	The Permit Holder shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: Fuel usage type and amount for: S-220 Hot Oil System S-21 Hydrogen Reformer Furnace S-22 Hydrogen Reformer Furnace CEM data and CEM indicated excesses; Fuel gas H <sub>2</sub> S concentration (24-hour Average); Fuel gas total reduced sulfur Concentration Average) Fuel gas usage rates (cubic feet/day) Fuel heat content, HHV [24-hour average] Actual Firing Rate (Btu/month) Miscellaneous [Basis: BACT]	Y	
10574	H	Any process vessel depressurization shall be vented to a control device with tan overall capture and destruction efficiency of 95% on a mass basis. [Basis: Cumulative Increase]	Y	
10574	I	Deleted.		
19466	10	The Permit Holder shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O <sub>2</sub> , operating day average). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]	Y	4/01/03
19466	14	The Owner/Operator shall use the continuous emission monitor required by 4/01/03  Regulation 9, Rule 10, to monitor compliance for all NO <sub>x</sub> limits at the		Y

## IV. Source Specific Applicable Requirements

following sources: [Basis: Monitoring]

CO Furnaces: S-3, S-4.

Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220

Steam Generators: S-40, S-41

### Table IV - A20 Source-Specific Applicable Requirements Steam Generator S-237 (SG-1032)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP · Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (06/28/1999)(10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 3</b>	<b>Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)</b>		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
<b>BAAQMD · Regulation 10 · Subpart Db</b>	<b>Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)</b>		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>			
<b>Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart Db</b>	<b>NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)</b>		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(a)	NOx Standard	Y	
40 CFR 60.44b(a)(1)(i)	NOx Standard for Natural Gas and Distillate Oil, Low Heat Release Rate	Y	
40 CFR 60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(e)(1)	Initial compliance test procedures	Y	
40 CFR 60.46b(e)(3)	30 day rolling average	Y	
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides	Y	
	Complies with 60.48b(b)(1).		
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO2 Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NOx monitors measure 1-hour average NO2 emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(e)(2)	Span Values for NOx.	Y	
40 CFR 60.48b(e)(3)	Span Values for NOx rounded to nearest 500ppm.	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NOx data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NOx	Y	
40 CFR 60.49b(g)(3)	30-day Average NOx	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NOx	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NOx standard	Y	
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(h)(4)	Excess Emissions Definition	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H2S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H2S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO2 monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO2 emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H2S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NSPS Title 40 Part 60 Appendix B</b>	<b>NSPS 40 Part 60 Appendix B (09/30/1999)</b>		
Performance Specification 7	H2S Continuous Emission Monitoring Systems	Y	
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>NSPS 40 Part 60 Appendix F (02/11/1991)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.050A		<b>Permit to Operate Temperature Boiler SG-1032</b>		
16027	1	Fugitive Emissions Components: All hydrocarbon valves greater than 2 inches shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems shall be equipped with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. <Basis: BACT>	Y	
16027	3	Fuel Gas System: The refinery low-pressure fuel gas shall not exceed any of the following: (a) 100 ppmv H <sub>2</sub> S, averaged over a 24-hour calendar day and (b) 160 PPM H <sub>2</sub> S, averaged over any 3-hour period. < Basis: Cumulative Increase, BACT, NSPS>	Y	
16027	4	Fuel Gas System: The refinery low-pressure fuel gas shall not exceed 51 ppmv of total reduced sulfur, averaged over any consecutive four-quarter period. <BACT> <Contemporaneous offsets for SO <sub>2</sub> and PM <sub>10</sub> emissions>	Y	
16027	5	Fuel Gas System: The Permit Holder shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H <sub>2</sub> S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. < Basis: Cumulative Increase >	Y	
16027	6	Fuel Gas System: The Permit Holder shall calculate and record the 24-hour average H <sub>2</sub> S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Conditions number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the daily fuel consumption at S-237, (b) daily averaged H <sub>2</sub> S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H <sub>2</sub> S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. < Basis Cumulative Increase >	Y	
16027	7	The S-237 Boiler shall fire natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H <sub>2</sub> S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. < Basis: Cumulative Increase, Toxics, offsets>	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date																												
8.2.050A		<b>Permit to Operate Temperature Boiler SG-1032</b>																														
16027	8	Total emissions form this combustion source (S-237) including startups and shutdowns, shall not exceed the following annual limits: <table><tr><td>Pollutant</td><td>Annual (tons)</td><td></td></tr><tr><td>NOx</td><td>13.278</td><td></td></tr><tr><td>CO</td><td>44.721</td><td></td></tr><tr><td>SO2</td><td></td><td>8.644</td></tr><tr><td>PM10</td><td>3.132</td><td></td></tr><tr><td>POC</td><td>2.881</td><td></td></tr></table> Combustion emissions shall be calculated using the following emission factors: <table><tr><td>NOx</td><td>Summation of daily emissions using CEM data</td></tr><tr><td>CO</td><td>0.0200 lb/MMBtu</td></tr><tr><td>SO2</td><td>0.0069 lb/MMBtu</td></tr><tr><td>PM10</td><td>0.0025 lb/MMBtu</td></tr><tr><td>POC</td><td>0.0023 lb/MMBtu.</td></tr></table> < Basis: Cumulative Increase, Offsets>	Pollutant	Annual (tons)		NOx	13.278		CO	44.721		SO2		8.644	PM10	3.132		POC	2.881		NOx	Summation of daily emissions using CEM data	CO	0.0200 lb/MMBtu	SO2	0.0069 lb/MMBtu	PM10	0.0025 lb/MMBtu	POC	0.0023 lb/MMBtu.	Y	
Pollutant	Annual (tons)																															
NOx	13.278																															
CO	44.721																															
SO2		8.644																														
PM10	3.132																															
POC	2.881																															
NOx	Summation of daily emissions using CEM data																															
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SO2	0.0069 lb/MMBtu																															
PM10	0.0025 lb/MMBtu																															
POC	0.0023 lb/MMBtu.																															
16027	9	The S-237 Boiler shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. (This is a parametric monitor as defined in Regulation 1-238.) < Basis: Monitoring and Records>	Y																													
16027	10	Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. < Basis: BAAQMD 6-301>	Y																													
16027	11	Startups and shutdowns shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not apply during the initial startup of the Units.S-237 Boiler. < Basis: Cumulative Increase, offsets, operational allowances>	Y																													
16027	12	Except during startup and shutdown, emissions of nitrogen oxides from the S-237 shall not exceed 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. < Basis: BACT, offsets>	Y																													
16027	13	For the S-237 Boiler, CO emissions shall not exceed 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data < Basis: BACT>	Y																													
16027	14	S-237 shall be abated at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. < Basis: BACT control>	Y																													



#### IV. Source Specific Applicable Requirements

16027	15	Except during periods of startup and shutdown, ammonia emissions (ammonia slip) from the SCR unit (A-58) shall not exceed 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on source test data. < Basis: Cumulative Increase, Toxics>	Y
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## IV. Source Specific Applicable Requirements

**Table IV - A20**  
**Source-Specific Applicable Requirements**  
**Steam Generator**  
**S-237 (SG-1032)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.050A		<b>Permit to Operate Temperature Boiler SG-1032</b>		
16027	16	The Permit Holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NOx and 02. <Monitoring and records>	Y	
16027	18	The total combined heat input for S-237 shall not exceed 2,505,360 million BTUs (HHV) in any 365 consecutive day period. < Basis: Cumulative Increase, Offsets>	Y	
16027	19	The total combined heat input for S-237 shall not exceed 7,60 million BTUs in any calendar day period. < Basis: Cumulative Increase>	Y	
16027	22	The Owner/Operator shall conduct a District-approved source test on an annual basis on Source S-237 to demonstrate compliance with the limit in Part 13 of this condition. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from the date of entry and shall be made available to District staff upon request. < Basis: Regulation 2-6-503>	Y	
19466 emissions	Y 4/01/03	3 The Owner/Operator shall monitor and record on a monthly basis the visible from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - A21**  
**Source-Specific Applicable Requirements**  
**Emergency Standby Diesel IC Engines**  
**S-240, S-241, S-242 (P-2401C, P-2602, P-2608B)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)</b>		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>BAAQMD · Regulation 9 · Rule 8</b>	<b>Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (08/01/2001)</b>		
9-8-110.4	Exemptions: Emergency Standby Engines	Y	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	
Applicable Condition	Regulation Title or Description of Permit to Operate S-240, S-241, S-242	Federally Enforceable (Y/N)	Future Effective Date
18748	1. The engines for emergency generators S-240, S-241, and S-242 shall be fired exclusively on diesel fuel having a sulfur content no greater than 0.05% by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor.[Basis: Cumulative Increase]  "Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231]  a. Loss of regular natural gas supply b. Failure of regular electric power supply c. Flood mitigation d. Sewage overflow mitigation e. Fire f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor		Y
18748	2. S-240, S-241, and S-242 shall only be operated to		Y

## IV. Source Specific Applicable Requirements

		mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year at each engine. Operation while mitigating emergency conditions is unlimited. [Basis: Regulation 9-8-330, Cumulative Increase]	
		"Reliability-related activities" is defined as any of the following:[Basis: Regulation 9-8-232]	
		a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or	
		b. Operation of an emergency standby engine during maintenance of a primary motor	
18748	3.	S-240, S-241, and S-242 shall be equipped with either:[Basis: Regulation 9-8-530]	Y
		a. a non-resettable totalizing meter that measures and records the hours of operation for the engine OR	
		b. a non-resettable fuel usage meter; the following factors shall be used to convert fuel usage to hours of operation:	
		S-240: 31 gal/hr	
		S-241: 13 gal/hr	
		S-242: 39 gal/hr	
18748	4.	The following monthly records shall be maintained in a District-approved log for at least 5 years for S-240, S-241, and S-242 and shall be made available for District inspection upon request: [Basis: Regulations 9-8-530, 1-441]	Y
		a. Total hours of operation for each engine	
		b. Hours of operation under emergency conditions for each engine and a description of the nature of each emergency condition	
		c. Fuel usage for each engine	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP· Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 9 · Rule 9</b>	<b>Inorganic Gaseous Pollutants, NOx from stationary gas turbines. (09/21/1994)</b>		
9-9-113	Exemption, Inspection and Maintenance Periods	Y	
9-9-113.1	Exemption, Inspection and Maintenance Periods Limited to 48 hours between May 1 and October 31.	Y	
9-9-113.2	Exemption, Inspection and Maintenance Period Limits for non-boiler inspection years	Y	
9-9-113.3	Exemption, Inspection and Maintenance Period Limits for boiler inspection years	Y	
9-9-114	Exemption, Start-up and Shutdown Periods	Y	
9-9-301	Emission Limits, General	Y	
9-9-301.3	Emission Limits, Turbines greater than 10 MW with SCR, NOx less than 9 ppmv (dry, 15% O2)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
9-9-401	Certification, Efficiency	Y	
9-9-601	Determination of Emissions	Y	
9-9-602	Determination of Stack Gas Oxygen	Y	
9-9-604	Determination of HHV and LHV	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Stationary Gas Turbines Subpart GG (02/16/2000)</b>			
10-40	Subpart GG. Standards of Performance For Stationary Gas Turbines	Y	
<b>BAAQMD · Regulation 10 · NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000) Subpart J</b>			
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart J NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>			
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(a)(4)(i)	Span value for continuous H <sub>2</sub> S monitor	Y	
40 CFR 60.105(a)(4)(ii)	Continuous H <sub>2</sub> S monitoring for fuel gas combustion devices having a common source of fuel gas.	Y	
40 CFR 60.105(a)(4)(iii)	Performance evaluations for continuous H <sub>2</sub> S monitor.	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO <sub>2</sub> emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H <sub>2</sub> S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
<b>NSPS Title 40 Part 60 Subpart GG NSPS GG for Stationary Gas Turbines (11/05/1987)</b>			
40 CFR 60.330(a)	Applicable to Stationary Gas Turbines greater than 10 MM Btu/hr	Y	
40 CFR 60.330(b)	Applicable to Facilities Constructed after October 3, 1977	Y	
40 CFR 60.333(b)	Fuel Sulfur Content cannot exceed 0.8 percent by weight	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase 1) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.334(b)(2)	Monitoring Requirement for Sulfur content in fuel	Y	
40 CFR 60.334(c)(2)	Excess SO <sub>2</sub> emission definitions for 60.7(c)	Y	
40 CFR 60.335(d)	Fuel sulfur content compliance methods	Y	
40 CFR 60.335(e)	Fuel sulfur content test methods	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	1	Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the owner will provide the following offsets: (Basis: NOx and POC) Phase I (S-1030 and S-1031)NOx: 13.162TPY from Certificate # 703 Phase II (S-1032 and S-1033) NOx: 18.477 TPY Total 18.256 TPY NOx from Certificate #703 0.221 TPY POC for NOx from Certificate #682 POC: 7.401 TPY POC from Certificate #682	Y	
19177	2	For SO2 emissions offsets, a curtailment group is established as follows: (Basis: SO2 offsets)Curtailment Group: Emission Sources Total Group BaselineS-237 Steam Boiler SG1032 S-220 Hot Oil Furnace F 4460 MTBE Ships S-40 Boiler SG2301 Phase I New GT/HRSG (S-1030 & S-1031)Phase II New GT/HRSG (S-1032 & S-1033) a. SO2 emissions from the Curtailment Group will not exceed 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit. b. Emissions will be calculated using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. Emissions from MTBE ships will be calculated using the District approved method established for the ships in Application #6968, Condition #10797.c. A quarterly report of the group emissions will be submitted to the District, in a District approved format, to document compliance.	Y	
19177	3	The owner/operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period. Conditions 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has ended.	Y	
19177	4	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Gas Turbine combustors and Heat Recovery Steam Generator duct burners shall be tuned to minimize the emissions of carbon monoxide and nitrogen oxides.	Y	
19177	5	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System shall be installed, adjusted, and operated to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam Generator.	Y	



## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	6	Coincident with the as designed operation of A-60/62 SCR System, the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d).	Y	
19177	7	The owner/operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbine describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.	Y	
19177	8	During the commissioning period, the owner/operator shall demonstrate compliance with conditions 10 through 12 through the use of properly operated, and maintained continuous emission monitors and data recorders for the following parameters: firing hours for the gas turbine and HRSG fuel flow rates through the trainstack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62stack gas carbon monoxide emission concentrations P-60/P-62stack gas SO2 emission concentrations at P-60/P-62 or fuel TRS/H2S concentrations. The monitored parameters shall be recorded at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The owner/operator shall use District-approved methods to calculate heat input rates, NOx mass emission rates, carbon monoxide mass emission rates, SOx mass emission rates, and emission concentrations of NOx, SOx, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.	Y	
19177	9	The District-approved continuous emission monitors specified in condition 8 shall be installed, calibrated, and operational prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam Generator (S-1031 or S-1033). After first firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SOx, and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	10	The total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System shall not exceed 250 hours for each turbine and associated HRSG train during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.	Y	
19177	11	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in condition 22.	Y	
19177	12	Combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) shall not exceed the following limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).NOx (as NO2) 360.34 pounds per calendar day CO 513.216 pounds per calendar day POC (as CH4) 97.776 pounds per calendar dayPM10 224.08 pounds per calendar daySO2 516 pounds per calendar day	Y	
19177	13	The Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)	Y	
19177	14	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in each power train (S-1030 or S-1032) shall not exceed 500 MM Btu/hr (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
19177	15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	16	The combined cumulative heat input rate for each power training consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) shall not exceed 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)	Y	
19177	17	S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs shall be abated by the properly operated and properly maintained A-60/A-62 Selective Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NOx)	Y	
19177	18	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
19177	18(a)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over one hour period.(Basis: BACT for NOx when firing natural gas)	Y	
19177	18(b)	The carbon monoxide emissions concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)	Y	
19177	18(c)	Ammonia (NH <sub>3</sub> ) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
19177	18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH <sub>4</sub> ) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train. At this time, the operation of the gas turbine (S-1030) alone on natural gas is not allowed due to non-demonstration of compliance during the initial source test [Part 21, operating condition #1]. However, if the Owner/Operator demonstrates, in a subsequent source test, compliance with part 18(d) under operating condition #1, the gas turbine (S-1030) shall be permitted to operate on natural gas when the HRSG (S-1031) is idle. The Owner/Operator shall be allowed the following time to obtain the repeat source test to demonstrate compliance with operating condition #1: Scheduled Events 2 days (48 hours) Unscheduled Events 5 days (120 hours) (Basis: BACT for POC when firing natural gas)	Y	
19177	18(e)	For sulfur dioxide (SO <sub>2</sub> ) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance	Y	

#### IV. Source Specific Applicable Requirements

		will be demonstrated in accordance with condition # 35. (Basis: BACT for SO2 when firing natural gas),	
19177	18(f)	For particulate (PM10) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for PM10 when firing natural gas)	Y

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	19	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
19177	19(a)	Emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO2, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NOx, Offsets)	Y	
19177	19(b)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over any 3-clock hour period(Basis: BACT for NOx)	Y	
19177	19(c)	Carbon monoxide mass emissions at P-60 or P-62 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)	Y	
19177	19(d)	The carbon monoxide emission concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)	Y	
19177	19(e)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
19177	19(f)	Precursor organic compound (POC) mass emissions (as CH4) at P-60 or P-62 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT)	Y	
19177	19(g)	Sulfur dioxide (SO2) mass emissions at P-60 or P-62 shall not exceed 10.75 pounds per hour (rolling 24 hour average). Sulfur concentrations in refinery fuel gas shall not exceed 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT) Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 shall not exceed 100 ppm TRS (rolling 24 hour average). (Basis: BACT) Hydrogen sulfide (H2S) concentrations in refinery fuel gas shall not exceed 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)	Y	
19177	19(h)	The Owner/Operator shall limit the particulate matter (PM10) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr Demonstration of compliance will be based on	Y	

#### **IV. Source Specific Applicable Requirements**

source test results. (Basis: BACT for PM10)

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	20 The sulfuric acid emissions (SAM) from P-60 and P-62 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD)	Y	
19177	21 A District approved initial source test will be commenced within 60 days of startup to demonstrate compliance with the NOx, CO, POC, TRS, SO2, PM10, NH3, and SAM levels in Conditions number 18, 19 or 20. For purposes of SAM, the applicant shall also test for SO3 and ammonium sulfates. The test results shall be forwarded to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on: 1. Gas Turbine firing natural gas only 2. Gas Turbine and HRSG firing natural gas only 3. Gas Turbine firing refinery fuel gas only 4. Gas Turbine and HRSG firing refinery fuel gas only. (Basis: PSD, BACT, TRMP, )	Y	
19177	22 Total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) shall not exceed the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)	Y	
19177	22(a) Phase I (S-1030 and S-1031)NOx - 28.603 TPY (based on CEM data) POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)Phase II (S-1032 and S-1033)NOx - 28.603 TPY (based on CEM data)POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive emissions of 0.349 TPY)SOx – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM10 – 6.803 TPY (based on source test results)	Y	
19177	22(b) The PM10 emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM10 emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM10 emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM10. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
19177	22(d)	The owner shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)	Y	
19177	23	To demonstrate compliance with conditions 19(f), 19(g), 19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:(a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)](b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033).(Basis: Offsets, PSD, Cumulative Increase)	Y	



## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	24	The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: Offsets, PSD, cumulative increase)	Y	
19177	25	The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)	Y	
19177	26	The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)	Y	
19177	27	The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)	Y	
19177	28	The stack height of emission points P-60 and P-62-shall each be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)	Y	
19177	29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	30 Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)	Y	
19177	31 The startup period for the Gas Turbines/HRSGs shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]	Y	
19177	33 Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the owner/operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)	Y	
19177	34 The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	
19177	35 The owner shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H <sub>2</sub> S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO <sub>2</sub> , BACT)	Y	
19177	36 The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H <sub>2</sub> S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H <sub>2</sub> S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H <sub>2</sub> S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter. (Basis: BACT, Offsets, Cumulative Increase)	Y	
19177	37 The four sources (S-1030, S-1031, S-1032 and S-1033) shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. (Basis: BACT, Offsets, Cumulative Increase, Monitoring)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	38 The owner shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NOx, CO and O2. (Basis: BACT, Offsets, Cumulative Increase)	Y	
19177	39 The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]	Y	
19177	40 The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase)	Y	
19177	41 All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)	Y	
19177	43. All connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project shall be equipped with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)	Y	
19177	44. All new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.1**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Turbine S-1030 (GT-4901)**  
**COGEN (Phase II) Turbine S-1032 (GT-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	46	The Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Condition number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]	Y	
19177	47	The S-38 and S-39 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1030 and S-1031 power train. The applicant shall enter into the record log the date each boiler was shutdown. (Basis: offsets)	Y	
19177	48	The S-41 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1032 and S-1033 power train. The applicant shall enter into the record log the boiler was shutdown. (Basis: offsets)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 1</b>	<b>General Provisions and Definitions (05/02/2001)</b>		
1-520	Continuous Emission Monitoring	Y	
1-520.8	Continuous Emission Monitoring (Monitors Pursuant to 2-1-403)	Y	
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	N	
1-522.1	Approval of Plans and Specifications	Y	
1-522.2	Scheduling Requirements	Y	
1-522.3	CEM Performance Testing	Y	
1-522.4	Reporting of Inoperative CEMS	Y	
1-522.5	CEM Calibration Requirements	Y	
1-522.6	CEM Accuracy Requirements	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	N	
1-522.8	Monitoring Data Submittal Requirements	Y	
1-522.9	Recordkeeping Requirements	Y	
1-522.10	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-602	Area and Continuous Emission Monitoring Requirements	N	
<b>SIP· Regulation 1</b>	<b>General Provisions and Definitions (SIP Approved) (10/07/1998)</b>		
1-522	Continuous Emission Monitoring and Recordkeeping Procedures	Y	
1-522.7	Emission Limit Exceedance Reporting Requirements	Y	
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-310.3	Heat Transfer Operation	Y	
<b>BAAQMD · Regulation 9 · Rule 3</b>	<b>Inorganic Gaseous Pollutants, Nitrogen Oxides from Heat Transfer Operations (03/17/1982)</b>		
9-3-303	New or Modified Heat Transfer Operation Limits	Y	
9-3-601	Determination of Nitrogen Oxides	Y	
<b>BAAQMD · Regulation 9 · Rule 10</b>	<b>NOx and CO from Petroleum Refinery Boilers, Steam Generators, &amp; Process Heaters (07/17/2002)</b>		
9-10-110.3	Exemptions; Waste heat recovery boilers	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 9 · Rule 11</b>	<b>Inorganic Gaseous Pollutants, NOx and CO from Utility Electric Power Gen Boilers (5/17/2000)</b>		
9-11-114	Exemption, Heat Recovery Steam Generators	Y	
<b>BAAQMD · Regulation 10 · Subpart Db</b>	<b>Federal NSPS, Industrial-Commercial-Institutional Steam Generating Units (02/16/2000)</b>		
10-4	Subpart Db. Standards of Performance For Industrial-Commercial-Institutional Steam Generating Units.	Y	
<b>BAAQMD · Regulation 10 · Subpart J</b>	<b>NSPS Incorporation by Reference, Petroleum Refineries (02/16/2000)</b>		
10-14	Subpart J. Standards of Performance For Petroleum Refineries	Y	
<b>NSPS Title 40 Part 60 Subpart Db</b>	<b>NSPS Db Standards for Industrial-Commercial-Institutional Steam Generating Units (12/16/1987)</b>		
40 CFR 60.40b(a)	Applicable to Steam Generating Units	Y	
40 CFR 60.40b(c)	Affected facilities subject to Subpart J are subject to PM and NOx standards in Subpart Db and SO2 standards in Subpart J	Y	
40 CFR 60.44b(a)	NOx Standard	Y	
40 CFR 60.44b(e)	NOx standard for refinery-produced byproduct (i.e., fuel gas) with oil or natural gas combustion, including startup provisions	Y	
40 CFR 60.44b(h)	NOx standard applicable at all times	Y	
40 CFR 60.44b(i)	30-day rolling average	Y	
40 CFR 60.44b(l)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.44b(l)(1)	Discharge Limits of Nitrogen Oxides	Y	
40 CFR 60.46b(a)	Compliance and Performance Test Methods and Procedures Apply at all Times for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(c)	Compliance determined per 60.46b(e)	Y	
40 CFR 60.46b(e)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(e)(1)	Initial compliance test procedures	Y	
40 CFR 60.46b(e)(3)	30 day rolling average	Y	
40 CFR 60.46b(f)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	Y	
40 CFR 60.46b(f)(1)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	Y	
40 CFR 60.46b(f)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides.	Y	
40 CFR 60.46b(h)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.46b(h)(1)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.46b(h)(2)	Compliance and Performance Test Methods and Procedures for Particulate Matter and Nitrogen Oxides	Y	
40 CFR 60.48b(b)	Emission Monitoring for Particulate Matter and Nitrogen Oxides Complies with 60.48b(b)(1).	Y	
40 CFR 60.48b(b)(1)	Maintain CMS and Record Output for Measuring NO <sub>2</sub> Discharge.	Y	
40 CFR 60.48b(c)	Record Data during all Periods of Operation of CMS except during Breakdown and Repairs	Y	
40 CFR 60.48b(d)	Continuous NO <sub>x</sub> monitors measure 1-hour average NO <sub>2</sub> emission rates	Y	
40 CFR 60.48b(e)	Complies with 60.13	Y	
40 CFR 60.48b(f)	Standby Monitoring Systems	Y	
40 CFR 60.49b(a)	Report Date of Initial Startup	Y	
40 CFR 60.49b(a)(1)	Report Heat Input Capacity and Identify Fuels to be Combusted	Y	
40 CFR 60.49b(a)(2)	Report of Federally Enforceable Requirement that Limits Annual Fuel Capacity.	Y	
40 CFR 60.49b(a)(3)	Report Annual Capacity Factor for all Fuels Fired	Y	
40 CFR 60.49b(b)	Submit to Administrator Nitrogen Oxides Emission Limits under 60.42b, 60.43b, and 60.44b	Y	
40 CFR 60.49b(d)	Record Amounts of each Fuel Combusted/Day and Calculate Annual Capacity Factors at a 12-month rolling average.	Y	
40 CFR 60.49b(g)	Recordkeeping – NO <sub>x</sub> data	Y	
40 CFR 60.49b(g)(1)	Calendar Date	Y	
40 CFR 60.49b(g)(10)	CEMS daily drift test results	Y	
40 CFR 60.49b(g)(2)	Average Hourly NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(3)	30-day Average NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(4)	Identification of 30-day Average NO <sub>x</sub>	Y	
40 CFR 60.49b(g)(5)	Insufficient Data	Y	
40 CFR 60.49b(g)(6)	Excluding Data	Y	
40 CFR 60.49b(g)(7)	Identification of "F" factor	Y	
40 CFR 60.49b(g)(8)	Pollutant concentration exceeded span of CMS	Y	
40 CFR 60.49b(g)(9)	Modifications of CMS	Y	
40 CFR 60.49b(h)	Excess emission reports	Y	
40 CFR 60.49b(h)(2)	Subject to 60.44b NO <sub>x</sub> standard	Y	
40 CFR 60.49b(h)(2)(i)	Combusts natural gas, distillate oil, or residual oil with Nitrogen content of 0.3 weight percent or less	Y	
40 CFR 60.49b(h)(4)	Excess Emissions Definition	Y	
40 CFR 60.49b(i)	Reports of 60.49b(g) data	Y	
40 CFR 60.49b(o)	Records retained for 2 years	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.49b(v)	Electronic Quarterly Reports	Y	
40 CFR 60.49b(w)	Semi-Annual Reports	Y	
<b>NSPS Title 40 Part 60 Subpart J</b>	<b>NSPS Subpart J for Petroleum Refineries (08/17/1989)</b>		
40 CFR 60.100(a)	Applicability: Claus Sulfur Recovery Plants, FCCU Catalyst Regenerators at Refineries and Fuel Gas Combustion Devices and Fuel Gas Combustion Devices of Refineries.	Y	
40 CFR 60.100(b)	Applicability: Constructed/modified after 6/11/1973	Y	
40 CFR 60.104	Standards for Sulfur Oxides: Compliance Schedule	Y	
40 CFR 60.104(a)(1)	Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf) except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	Y	
40 CFR 60.105(a)	Continuous Monitoring Systems Requirements	Y	
40 CFR 60.105(a)(4)	Monitoring requirement for H <sub>2</sub> S (dry basis) in fuel gas prior to combustion (in lieu of separate combustion device exhaust SO <sub>2</sub> monitors as required by 60.105(a)(3))	Y	
40 CFR 60.105(a)(4)(i)	Span value for continuous H <sub>2</sub> S monitor	Y	
40 CFR 60.105(a)(4)(ii)	Continuous H <sub>2</sub> S monitoring for fuel gas combustion devices having a common source of fuel gas.	Y	
40 CFR 60.105(a)(4)(iii)	Performance evaluations for continuous H <sub>2</sub> S monitor.	Y	
40 CFR 60.105(e)	Determine and report periods of excess emissions.	Y	
40 CFR 60.105(e)(3)(ii)	Excess SO <sub>2</sub> emission definitions for 60.7(c)	Y	
40 CFR 60.106(a)	Test Methods and Procedures	Y	
40 CFR 60.106(e)(1)	Methods to determine compliance with the H <sub>2</sub> S standard in 60.104(a)(1).	Y	
40 CFR 60.107(e)	Semi-annual compliance report	Y	
40 CFR 60.107(f)	Certification of 60.107(e) report	Y	
<b>NSPS Title 40 Part 60 Appendix B</b>	<b>NSPS 40 Part 60 Appendix B (09/30/1999)</b>		
Performance Specification 7	H <sub>2</sub> S Continuous Emission Monitoring Systems	Y	
<b>NSPS Title 40 Part 60 Appendix F</b>	<b>NSPS 40 Part 60 Appendix F (02/11/1991)</b>		
Procedure 1	QA Requirements for Gas Continuous Emission Monitoring Systems	Y	



## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	1	Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the owner will provide the following offsets: Phase I (S-1030 and S-1031) NOx: 13.162 TPY from Certificate # 703 Phase II (S-1032 and S-1033) NOx: 18.477 TPY Total 18.256 TPY NOx from Certificate #703 0.221 TPY POC for NOx from Certificate #682 POC: 7.401 TPY POC from Certificate #682 (Basis: NOx and POC)	Y	
19177	2	For SO2 emissions offsets, a curtailment group is established as follows: Curtailment Group: Emission Sources Total Group Baseline S-237 Steam Boiler SG1032 S-220 Hot Oil Furnace F 4460 MTBE Ships S-40 Boiler SG2301 Phase I New GT/HRSG (S-1030 & S-1031) Phase II New GT/HRSG (S-1032 & S-1033) a. SO2 emissions from the Curtailment Group will not exceed 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit. b. Emissions will be calculated using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. Emissions from MTBE ships will be calculated using the District approved method established for the ships in Application #6968, Condition #10797. c. A quarterly report of the group emissions will be submitted to the District, in a District approved format, to document compliance. (Basis: SO2 offsets)	Y	
19177	3	The owner/operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period. Conditions 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has	Y	
19177	4	At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Gas Turbine combustors and Heat Recovery Steam Generator duct burners shall be tuned to minimize the emissions of carbon monoxide and nitrogen oxides.	Y	
19177	5	At the earliest feasible opportunity, but no later than 30 days after startup,	Y	

## IV. Source Specific Applicable Requirements

in accordance with the recommendations of the equipment manufacturers and the construction contractor, the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System shall be installed, adjusted, and operated to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam

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### **Source-Specific Applicable Requirements**

#### **COGEN (Phase I) Steam Generator S-1031 (SG-4901)**

#### **COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	6	Coincident with the as designed operation of A-60/62 SCR System, the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NOx and CO emission limitations specified in conditions 18(a), 18(b), 19(b) and 19(d).	Y	
19177	7	The owner/operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbine describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NOx continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.	Y	
19177	8	During the commissioning period, the owner/operator shall demonstrate compliance with conditions 10 through 12 through the use of properly operated, and maintained continuous emission monitors and data recorders for the following parameters: firing hours for the gas turbine and HRSG fuel flow rates through the trainstack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62 stack gas carbon monoxide emission concentrations P-60/P-62 stack gas SO2 emission concentrations at P-60/P-62 or fuel TRS/H2S concentrations. The monitored parameters shall be recorded at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The owner/operator shall use District-approved methods to calculate heat input rates, NOx mass emission rates, carbon monoxide mass emission rates, SOx mass emission rates, and emission concentrations of NOx, SOx, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.	Y	
19177	9	The District-approved continuous emission monitors specified in condition 8 shall be installed, calibrated, and operational prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam	Y	

#### **IV. Source Specific Applicable Requirements**

Generator (S-1031 or S-1033). After first firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SOx, and NOx emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	10	The total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System shall not exceed 250 hours for each turbine and associated HRSG train during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.	Y	
19177	11	The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM10, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in	Y	
19177	12	Combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) shall not exceed the following limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).NOx (as NO2) 360.34 pounds per calendar day CO 513.216 pounds per calendar day POC (as CH4) 97.776 pounds per calendar day PM10 224.08 pounds per calendar day SO2 516 pounds per calendar day	Y	
19177	13	The Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) shall be fired on refinery fuel and/or natural gas. (Basis: BACT for SO2 and PM10)	Y	
19177	14	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in each power train (S-1030 or S-1032) shall not exceed 500 MM Btu/hr (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	
19177	15	The combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) shall each not exceed 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	16	The combined cumulative heat input rate for each power training consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) shall not exceed 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)	Y	
19177	17	S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs shall be abated by the properly operated and properly maintained A-60/A-62 Selective Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NOx)	Y	
19177	18	The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
19177	18(a)	Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O2, averaged over one hour period.(Basis: BACT for NOx when firing natural gas)	Y	
19177	18(b)	The carbon monoxide emissions concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)	Y	
19177	18(c)	Ammonia (NH3) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O2, averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
19177	18(d)	The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH4) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train. At this time, the operation of the gas turbine (S-1030) alone on natural gas is not allowed due to non-demonstration of compliance during the initial source test [Part 21, operating condition #1]. However, if the Owner/Operator demonstrates, in a subsequent source test, compliance with part 18(d) under operating condition #1, the gas turbine (S-1030) shall be permitted to operate on natural gas when the HRSG (S-1031) is idle. The Owner/Operator shall be allowed the following time to obtain the repeat source test to demonstrate compliance with operating condition #1: Scheduled Events                      2 days (48 hours) Unscheduled Events                      5 days (120 hours) (Basis: BACT for POC when firing natural gas)	Y	
19177	18(e)	For sulfur dioxide (SO2) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance	Y	

#### IV. Source Specific Applicable Requirements

		will be demonstrated in accordance with condition # 35. (Basis: BACT for SO2 when firing natural gas),	
19177	18(f)	For particulate (PM10) emissions, the sulfur content in the natural gas shall not exceed 1.0 grain per 100 scf of natural gas. The owner shall use standard pipeline quality natural gas as supplied by PG&E. Compliance will be demonstrated in accordance with condition # 35. (Basis: BACT for PM10 when firing natural gas)	Y

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	19 The Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)	Y	
19177	19(a) Emissions of nitrogen oxides (NOx), calculated in accordance with District approved methods as NO <sub>2</sub> , at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) shall not exceed 7.29 pounds per clock hour. (Basis: BACT for NOx, Offsets)	Y	
19177	19(b) Emissions of nitrogen oxides (NOx) at emission points P-60 or P-62 shall not exceed 2.5 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over any 3-clock hour period(Basis: BACT for NOx)	Y	
19177	19(c) Carbon monoxide mass emissions at P-60 or P-62 shall not exceed 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)	Y	
19177	19(d) The carbon monoxide emission concentration at P-60 or P-62 shall not exceed 6 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over any rolling 3-clock hour period. (Basis: BACT for CO)	Y	
19177	19(e) Ammonia (NH <sub>3</sub> ) emission concentrations at P-60 or P-62 shall not exceed 10 ppmv, on a dry basis, corrected to 15% O <sub>2</sub> , averaged over any rolling 3-hour period. (Basis: Toxics)	Y	
19177	19(f) Precursor organic compound (POC) mass emissions (as CH <sub>4</sub> ) at P-60 or P-62 shall not exceed 2.037 pounds per hour. Demonstration of compliance will be based on source test results. (Basis: BACT)	Y	
19177	19(g) Sulfur dioxide (SO <sub>2</sub> ) mass emissions at P-60 or P-62 shall not exceed 10.75 pounds per hour (rolling 24 hour average). Sulfur concentrations in refinery fuel gas shall not exceed 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT) Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 shall not exceed 100 ppm TRS (rolling 24 hour average). (Basis: BACT) Hydrogen sulfide (H <sub>2</sub> S) concentrations in refinery fuel gas shall not exceed 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)	Y	
19177	19(h) The Owner/Operator shall limit the particulate matter (PM <sub>10</sub> ) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr Demonstration of compliance will be based on source test results. (Basis: BACT for PM <sub>10</sub> )	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	20 The sulfuric acid emissions (SAM) from P-60 and P-62 combined shall be less than 7 tons in any consecutive four quarters. (Basis: PSD)	Y	
19177	21 A District approved initial source test will be commenced within 60 days of startup to demonstrate compliance with the NO <sub>x</sub> , CO, POC, TRS, SO <sub>2</sub> , PM <sub>10</sub> , NH <sub>3</sub> , and SAM levels in Conditions number 18, 19 or 20. For purposes of SAM, the applicant shall also test for SO <sub>3</sub> and ammonium sulfates. The test results shall be forwarded to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on: 1. Gas Turbine firing natural gas only 2. Gas Turbine and HRSG firing natural gas only 3. Gas Turbine firing refinery fuel gas only 4. Gas Turbine and HRSG firing refinery fuel gas only. (Basis: PSD, BACT, TRMP)	Y	
19177	22 Total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) shall not exceed the following annual limits (365 day rolling average): (Basis: Cumulative Increase,	Y	
19177	22(a) Phase I (S-1030 and S-1031)NO <sub>x</sub> - 28.603 TPY (based on CEM data) POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)SO <sub>x</sub> – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM <sub>10</sub> – 6.803 TPY (based on source test results)Phase II (S-1032 and S-1033)NO <sub>x</sub> - 28.603 TPY (based on CEM data)POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive emissions of 0.349 TPY)SO <sub>x</sub> – 15.0 (based on TRS measurement)CO - 41.9285 TPY (based on CEM data)PM <sub>10</sub> – 6.803 TPY (based on source test results)	Y	
19177	22(b) The PM <sub>10</sub> emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM <sub>10</sub> emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM <sub>10</sub> emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM <sub>10</sub> . The Cogeneration project increase in PM <sub>10</sub> is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM <sub>10</sub> beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	



## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	22(c)	The PM10 emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM10 level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Condition 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM10 is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM10 beyond the allowable level. (Basis: Cumulative Increase, Offsets)	Y	
19177	22(d)	The owner shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The report shall be submitted to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)	Y	
19177	23	To demonstrate compliance with conditions 19(f), 19(g), 19(h), 20 and parts of 22, the owner/operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM10) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO2) mass emissions from each power train. The owner/operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:(a) For each calendar day, POC, PM10, SAM and SO2 emissions shall be summarized for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)](b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033).(Basis: Offsets, PSD, Cumulative Increase)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	24	The owner/operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The owner/operator shall comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests. (Basis: Offsets, PSD, Cumulative Increase)	Y	
19177	25	The owner/operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)	Y	
19177	26	The owner/operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)	Y	
19177	27	The owner/operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation 2-1-403)	Y	
19177	28	The stack height of emission points P-60 and P-62-shall each be at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)	Y	
19177	29	The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	30 Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)	Y	
19177	31 The startup period for the Gas Turbines/HRSGs shall last for no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, TRMP]	Y	
19177	33 Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the owner/operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)	Y	
19177	34 The Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)	Y	
19177	35 The owner shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H <sub>2</sub> S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO <sub>2</sub> , BACT)	Y	
19177	36 The owner shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H <sub>2</sub> S content of the refinery fuel gas. On a quarterly basis, the owner shall report: (a) the daily fuel consumption, (b) hourly H <sub>2</sub> S content (as averaged over 3 consecutive hours) of the refinery fuel gas, (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours), (d) quarterly daily averaged H <sub>2</sub> S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged reduced sulfur content using the last four quarters. The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter. (Basis: BACT, Offsets, Cumulative Increase)	Y	
19177	37 The four sources (S-1030, S-1031, S-1032 and S-1033) shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. (Basis: BACT, Offsets, Cumulative Increase, Monitoring)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.xxx	<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	38 The owner shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NOx, CO and O2. (Basis: BACT, Offsets, Cumulative Increase)	Y	
19177	39 The owner shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM10. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]	Y	
19177	40 The owner shall conduct a quarterly source test to demonstrate compliance with condition 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO2, SO3, SAM and ammonium sulfates. The owner shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. (Basis: Cumulative Increase)	Y	
19177	41 All hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II shall be equipped with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase. Offsets)	Y	
19177	43. All connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project shall be equipped with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)	Y	
19177	44. All new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18. All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A22.2**  
**Source-Specific Applicable Requirements**  
**COGEN (Phase I) Steam Generator S-1031 (SG-4901)**  
**COGEN (Phase II) Steam Generator S-1033 (SG-4951)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.xxx		<b>Authority to Construct S-1030, S-1031, S-1032, S-1033</b>		
19177	46	The Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Condition number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit [Basis: Cumulative Increase, Offsets]	Y	
19177	47	The S-38 and S-39 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1030 and S-1031 power train. The applicant shall enter into the record log the date each boiler was shutdown. (Basis: offsets)	Y	
19177	48	The S-41 steam boilers shall be completely shutdown no later than 90 days after startup of the S-1032 and S-1033 power train. The applicant shall enter into the record log the boiler was shutdown. (Basis: offsets)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - A23**  
**Source-Specific Applicable Requirements**  
**Emergency Standby Diesel IC Engines**  
**S-243 (D5101)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-303.1	Ringelmann No. 2 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-401	Appearance of Emissions	Y	
6-601	Particulate Matter, Sampling, Sampling Facilities, Opacity Instruments and Appraisal of Visible Emissions	Y	
<b>BAAQMD · Regulation 9 · Rule 1</b>	<b>Inorganic Gaseous Pollutants, Sulfur Dioxide Emissions Limitations (3/15/1995)</b>		
9-1-304	Fuel Burning (Liquid and Solid Fuels)	Y	
<b>BAAQMD · Regulation 9 · Rule 8</b>	<b>Inorganic Gaseous Pollutants, NOX and CO from Stationary IC Engines (08/01/2001)</b>		
9-8-110.4	Exemptions: Emergency Standby Engines	Y	
9-8-330.1	Emergency Standby Engines, Hours of Operation	N	
9-8-330.2	Emergency Standby Engines, Hours of Operation	N	
9-8-530.1	Hours of operation (total)	N	
9-8-530.2	Hours of operation (emergency)	N	
9-8-530.3	Nature of emergency condition	N	
Applicable Condition	Regulation Title or Description of Permit to Operate S-240, S-241, S-242	Federally Enforceable (Y/N)	Future Effective Date
18744	1. The engine for emergency generator S-243 shall be fired exclusively on diesel fuel having a sulfur content no greater than 0.05% by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor.[Basis: Cumulative Increase]  "Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231]  a. Loss of regular natural gas supply b. Failure of regular electric power supply c. Flood mitigation d. Sewage overflow mitigation e. Fire f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor	Y	
18744	2. S-243 shall only be operated to	Y	

#### IV. Source Specific Applicable Requirements

		mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year at each engine. Operation while mitigating emergency conditions is unlimited. [Basis: Regulation 9-8-330, Cumulative Increase]	
		"Reliability-related activities" is defined as any of the following:[Basis: Regulation 9-8-232]	
		a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or	
		b. Operation of an emergency standby engine during maintenance of a primary motor	
18744	3.	S-243 shall be equipped with either:[Basis: Regulation 9-8-530]	Y
		a. a non-resettable totalizing meter that measures and records the hours of operation for the engine OR	
		b. a non-resettable fuel usage meter (61 gallons of fuel shall be assumed to be equivalent to 1 hour of reliability-related operation)	
18744	4.	The following monthly records shall be maintained in a District-approved log for at least 5 years for S-243 and shall be made available for District inspection upon request: [Basis: Regulations 9-8-530, 1-441]	Y
		a. Total hours of operation for each engine	
		b. Hours of operation under emergency conditions for each engine and a description of the nature of each emergency condition	
		c. Fuel usage for each engine	

## IV. Source Specific Applicable Requirements

**Table IV - B1**  
**Source-Specific Applicable Requirements**  
**Coke Transport/Catalyst Railcar Unloading/ Lime Silo**  
**S-8, S-10, S-12 (CYC-1901, FIL-2701, TK-2303)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
19466 emissions    Y    4/01/03	3                      The Owner/Operator shall monitor and record on a monthly basis the visible  from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466                      7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). . The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

**Table IV - B2**  
**Source-Specific Applicable Requirements**  
**Activated Carbon Bin**  
**S-11 (TK-2061)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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## IV. Source Specific Applicable Requirements

### BAAQMD · Regulation 6 Particulate Matter and Visible Emissions (12/19/1990)

6-301	Ringelmann No. 1 Limitation	Y
6-310	Particulate Weight Limitation	Y
6-311	General Operations (Process Weight Rate Limitation)	Y
6-401	Appearance of Emissions	Y

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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#### 8.2.011 Permit to Operate S-11 (TK-2061) Activated Carbon Bin

9897	1	The maximum receipt of the activated carbon at the Activated Carbon Bin TK-2061 (S-11) shall not exceed 292 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
9897	2	To demonstrate compliance with Condition #1, the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
19466 emissions	Y 4/01/03	3 The Owner/Operator shall monitor and record on a monthly basis the visible from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466	7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - B3**  
**Source-Specific Applicable Requirements**  
**Lime Slurry Tanks**  
**S-174, S-175 (TK-2321, TK-2322)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.004	<b>Permit to Operate S-174, S-175, S-176 NBA Water Treating Project</b>		
639	1 If any visible emissions occur from the lime slurry tanks these emissions shall be abated. [Basis: BAAQMD 1-301]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B4**  
**Source-Specific Applicable Requirements**  
**Brine Saturator Tank**  
**S-176 (TK-2325)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.004	<b>Permit to Operate S-176 NBA Water Treating Project</b>		
3253	1 If dry salt is added to tank No. 2325 (S-176) a particulate control device shall be added to control any emissions from this source. [Basis: Cumulative Increase]	Y	
19466 emissions	3 The Owner/Operator shall monitor and record on a monthly basis the visible 4/01/03 from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466	7 The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - B5**  
**Source-Specific Applicable Requirements**  
**Methanol/Ethanol Railcar Unloading**  
**S-209 (LD-209)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.2.007	<b>Permit to Operate S-209, 210, 211 MTBE Process Unit</b>		
9296	B1 For the S-209 Methanol/Ethanol Unloading Station: The transport trucks shall travel on paved roads at all times inside of the Permit Holder Facility. [Basis: Cumulative Increase]	Y	
9296	B2 For the S-209 Methanol/Ethanol Unloading Station: All deliveries of methanol/ethanol shall be from the transport trucks unless Permit Holder first receives prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]		Y
9296	B3 Deleted.		
9296	B4 For the S-209 Methanol/ethanol Unloading Station: The total number of truck deliveries of methanol/ethanol at Permit Holder shall not exceed 2920 trucks in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
9296	B5 The dispensed methanol/ethanol from the transport trucks shall be delivered to the S-210 methanol/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]	Y	
9296	B6 Total fugitive POC emissions from S-209 shall not exceed 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
9296	B7 Deleted.		
9296	B8 Deleted.		
9296	B9 The total number of truck deliveries of methanol/ethanol shall be recorded weekly in a District approved log and totalized monthly. This record shall be retained for a period of at least 2 years from date of entry. it shall be kept on site and made available to District staff upon request. [Basis Banked POC credits]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B6**  
**Source-Specific Applicable Requirements**  
**ESP Fines Vacuum Conveying System**  
**S-232 (NO TAG)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.040	<b>Permit to Operate S-232 ESP Fines Improvements</b>		
12727	1 The throughput of ESP fines at the Vacuum Conveying System (S-232) shall not exceed 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
12727	3 The operation of S-232 shall be abated properly by the Vacuum Filter (A-54). [Basis: Cumulative Increase]	Y	
12727	5 To demonstrate compliance with Conditions #1 and 2, the monthly throughput records of ESP fines at S-232 and S-233 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
19466 emissions Y	3 The Owner/Operator shall monitor and record on a monthly basis the visible from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]		
19466 7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon	Y	4/01/03

#### **IV. Source Specific Applicable Requirements**

request. [Basis: Regulation 6-310]

## IV. Source Specific Applicable Requirements

**Table IV - B7**  
**Source-Specific Applicable Requirements**  
**ESP Fines Storage Bin**  
**S-233 (NO TAG)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
6-311	General Operations (Process Weight Rate Limitation)	Y	
6-401	Appearance of Emissions	Y	
Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.040	<b>Permit to Operate S-233 ESP Fines Improvements</b>		
12727	2 The throughput of ESP fines at the ESP Fines Storage Bin (S-233) shall not exceed 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
12727	4 The operation of S-233 shall be abated properly by the Bin Filter (A-55). [Basis: Cumulative Increase]	Y	
12727	5 To demonstrate compliance with Conditions #1 and 2, the monthly throughput records of ESP fines at S-232 and S-233 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. [Basis: Cumulative Increase]	Y	
19466 emissions	3 The Owner/Operator shall monitor and record on a monthly basis the visible from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466	7 The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

#### **IV. Source Specific Applicable Requirements**



## IV. Source Specific Applicable Requirements

**Table IV - B8**  
**Source-Specific Applicable Requirements**  
**Pentane Railcar Loading/Unloading Rack**  
**S-1027 (1700)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-114	Exemption, Miscellaneous Plants	Y	
<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
17835-1	This light ends rail rack (S-1027) shall handle no more than 22,500 barrels per day, as averaged over the quarterly period. [Basis: Cumulative Increase]	Y	
17835-2	This light ends rail rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]	Y	
17835-3	The Permit Holder shall maintain quarterly records in a District approved log. These records shall be maintained for a period of at least five years. The logs shall be kept on site and made available to District staff upon request. [Basis: Recordkeeping]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B9.1**  
**Source-Specific Applicable Requirements**  
**Vacuum Truck Loading**  
**S-201 (LD-2051)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC</b>	<b>NESHAPS for Petroleum Refineries (06/12/1996)</b>		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
11883	1 S-201 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - B9.2**  
**Source-Specific Applicable Requirements**  
**Vacuum Truck Loading**  
**S-202 (LD-2069)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC</b>	<b>NESHAPS for Petroleum Refineries (06/12/1996)</b>		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
11884	1 S-202 (Truck Loading Operation): This source shall be abated by vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - C1**  
**Source-Specific Applicable Requirements**  
**PFR Regeneration Facilities**  
**S-27 (NO TAG)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - C2**  
**Source-Specific Applicable Requirements**  
**Sulfur Storage Pit**  
**S-157 (NO TAG)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	

## IV. Source Specific Applicable Requirements

**Table IV – C3**  
**Source-Specific Applicable Requirements**  
**Seal Oil Spargers**  
**S-159 (SG-701/GT-701)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
19466      12	The VOC emissions from the S-159 Lube Oil Reservoir shall be abated by the S-36 Boiler. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - C4.1**  
**Source-Specific Applicable Requirements**  
**Seal Oil Spargers**  
**S-160 (C-1031)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
19466 2c	The Permit Holder shall conduct an annual District-approved source test on the S-160, Seal Oil Sparger, to demonstrate compliance with Regulation 8-2-301. The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 8-8-302.3]	Y	4/01/03
19466 emissions	3 The Owner/Operator shall monitor and record on a monthly basis the visible Y 4/01/03 from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringelmann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-301]		
19466 7	The permit holder shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The test results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [ Basis: Regulation 6-310]	Y	4/01/03

## IV. Source Specific Applicable Requirements

**Table IV - C4.2**  
**Source-Specific Applicable Requirements**  
**Seal Oil Spargers**  
**S-167 and S-168 (C-401, C-2901)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	
<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-301	Miscellaneous Operations	Y	
19466 13	The VOC emissions from S-167 and S-168 Seal Oil Spargers shall be vented in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system . [Basis: Cumulative Increase]	Y	

**Table IV - D1**  
**Source-Specific Applicable Requirements**  
**Cooling Tower**  
**S-29 (CT-2401)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD Regulation 6</b>	<b>Particulate Matter and Visible Emissions (09/04/98)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-305	Visible Particles	Y	
6-310	Particle Weight Limitation	Y	
6-311	General Operations (process weight rate limitation)	Y	
6-401	Appearance of Emissions	Y	

<b>BAAQMD · Regulation 8 · Rule 2</b>	<b>Organic Compounds, Miscellaneous Operations (06/15/1994)</b>		
8-2-114	Exemption, Miscellaneous Plants	Y	
8-2-301	Miscellaneous Operations	Y	
<b>BAAQMD · Regulation 11 · Rule 10</b>	<b>Hazardous Pollutants, Hexavalent Chromium Emission from Cooling Towers (11/15/1989)</b>		
11-10-301	Hexavalent Chromium Removal	Y	
11-10-302.2	Circulating Water Concentration-Wooden Cooling Towers	Y	
11-10-503.2	Monitoring-Wooden Cooling Towers	Y	



## IV. Source Specific Applicable Requirements

**Table IV - E1**  
**Source-Specific Applicable Requirements**  
**Diesel Dispensing**  
**S-127 (FD-127)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/2002)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

**Table IV - E2**  
**Source-Specific Applicable Requirements**  
**Gasoline Dispensing**  
**S-165 (FD-165)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 7</b>	<b>Organic Compounds, Gasoline Dispensing Facilities (11/17/1999)</b>		
8-7-113	Tank Gauging and Inspection Exemption	Y	
8-7-301.1	Requirement for CARB Phase I System	Y	
8-7-301.2	Installation of Phase I Equipment per CARB Requirements	Y	
8-7-301.3	Submerged Fill Pipes	Y	
8-7-301.5	Maintenance of Phase I Equipment per Manufacturers	Y	
8-7-301.6	Leak-Free, Vapor-Tight	Y	
8-7-301.7	Poppetted Drybreaks	Y	
8-7-301.8	No-Coaxial Phase I Systems on New and Modified Tanks	Y	
8-7-301.9	CARB-Certified Anti-Rotational Coupler or Swivel Adapter	Y	
8-7-301.10	System Vapor Recovery Rate	Y	
8-7-301.11	CARB-Certified Spill Box	Y	
8-7-301.12	Drain Valve Permanently Plugged	Y	
8-7-302.1	Requirements for CARB Certified Phase II System	Y	
8-7-302.2	Maintenance of Phase II System per CARB Requirements	Y	
8-7-302.3	Maintenance of All Equipment as Specified by Manufacturer	Y	
8-7-302.4	Repair of Defective Parts Within 7 Days	Y	
8-7-302.5	Leak-Free, Vapor-Tight	Y	
8-7-302.6	Insertion Interlocks	Y	
8-7-302.7	Built-In Vapor Check Valve	Y	
8-7-302.8	Minimum Liquid Removal Rate	Y	
8-7-302.9	Coaxial Hose	Y	
8-7-302.10	Galvanized Piping or Flexible Tubing	Y	
8-7-302.11	ORVR Compatible	Y	
8-7-302.12	Liquid Retainment Limit	Y	
8-7-302.13	Spitting Limit	Y	
8-7-303	Topping Off	Y	
8-7-304	Certification Requirements	Y	
8-7-306	Prohibition of Use	Y	
8-7-307	Posting of Operating Instructions	Y	
8-7-308	Operating Practices	Y	

#### **IV. Source Specific Applicable Requirements**

8-7-309	Contingent Vapor Recovery Requirements	Y
8-7-313	Requirements for New or Modified Phase II Installations	Y
8-7-313.1	Total Organic Compound Emissions From Nozzle/Fillpipe Interface, Storage Tank Vent Pipes, and Pressure-Related Fugitives Shall Not Exceed 0.42 lb/1000 Gallons	Y

## IV. Source Specific Applicable Requirements

**Table IV - E2**  
**Source-Specific Applicable Requirements**  
**Gasoline Dispensing**  
**S-165 (FD-165)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-7-313.2	Total Organic Compound Emissions From Spillage Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-313.3	Total Organic Compound Emissions From Liquid Retain and Spitting Shall Not Exceed 0.42 lb/1000 Gallons	Y	
8-7-315	Pressure Vacuum Valve Requirements, Underground Storage Tanks	Y	
8-7-401	Equipment Installation and Modification		Y
8-7-406	Testing Requirements, New and Modified Installations	Y	
8-7-501	Burden of Proof	Y	
8-7-502	Right of Access	Y	
8-7-503.1	Gasoline Dispensed Records	Y	
8-7-503.2	Dispensing Facility Maintenance Records	Y	
8-7-503.3	Dispensing Records Retention	Y	
8-7-601	Determination of Equipment in Compliance with Dynamic Backpressure Requirements and Vapor Tight	Y	Y
8-7-602	Determination of Phase I Vapor Recovery Efficiency		Y
8-7-603	Determination of Applicability		Y
8-7-604	Determination of Equipment in Compliance with Liquid Removal Requirements		Y
8-7-605	Determination of Equipment in Compliance with Air to Liquid Volume Ratio (A/L) Requirements		Y
8-7-606	Determination of Applicability		Y

## IV. Source Specific Applicable Requirements

**Table IV - F1**  
**Source-Specific Applicable Requirements**  
**Marine Loading**  
**S-129 (LD-129)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 44</b>	<b>Organic Compounds, California Marine Vessel loading of organic compounds. (01/04/1989)</b>		
8-44-110	Exemption, Loading Events	Y	
8-44-111	Exemption, Marine Vessel Fueling	Y	
8-44-112	Exemption, Lightering	Y	
8-44-301	Marine Terminal Loading Limit	Y	
8-44-301.1	Limited to 5.7 Grams per Cubic Meter (2 lb per 1000 bbls) of Organic Liquid Loaded, or	Y	
8-44-301.2	POC Emissions Reduced 95% by Weight From Uncontrolled Conditions	Y	
8-44-302	Emission Control Equipment	Y	
8-44-303	Operating Practice	Y	
8-44-304	Equipment Maintenance	Y	
8-44-304.1	Certified leak free, gas tight and in good working order, and	Y	
8-44-304.2	Loading ceases any time gas or liquid leaks are discovered	Y	
8-44-402	Safety/Emergency Operations	Y	
8-44-402.1	Rule does not require act/omission in violation of Coast Guard/other rules	Y	
8-44-402.2	Rule does not prevent act/omission for vessel safety or saving life at sea	Y	
8-44-501	Recordkeeping	Y	
8-44-501.1	Name and location	Y	
8-44-501.2	Responsible company	Y	
8-44-501.3	Dates and times	Y	
8-44-501.4	Name, registry of the vessel loaded and legal owner	Y	
8-44-501.5	Prior cargo carried	Y	
8-44-501.6	Type, amount of liquid cargo loaded	Y	
8-44-501.7	Condition of tanks	Y	
8-44-502	Burden of Proof	Y	
8-44-601	Determination of Emissions	Y	
8-44-602	Efficiency and Mass Emission Determination (Vapor Processing System)	Y	
8-44-603	Leak Tests and Gas Tight Determinations	Y	
<b>NESHAPS Title 40 Part 63 Subpart Y</b>	<b>NESHAPS for Marine Vessel Loading of Organic Liquids (09/19/1995)</b>		
40 CFR 63.560(a)	Maximum Achievable Control Technology (MACT) Applicability	Y	
40 CFR 63.560(a)(2)	MACT does not apply to existing sources with emissions < 10 or 25 tons	Y	
40 CFR 63.560(a)(3)	Record keeping in 63.567(j)(4) and emission estimation in 63.565(l) apply to existing sources < 10 and 25 tons	Y	
40 CFR 63.560(b)	Applicability and Designation of Affected Source	Y	
40 CFR 63.560(b)(2)	RACT Standards do not Apply to Marine Loading Operations with Throughput Less Than 10 M and 200 M Barrels	Y	
40 CFR 63.565(l)	Emission estimation procedures	Y	
40 CFR 63.567(j)	Recordkeeping and Reporting Requirements	Y	
40 CFR 63.567(j)(4)	Retain records of emission estimates per 63.565(l), and actual throughputs, by commodity, for 5 years	Y	

## IV. Source Specific Applicable Requirements

**Table IV - F1**  
**Source-Specific Applicable Requirements**  
**Marine Loading**  
**S-129 (LD-129)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.014		<b>LVB Banking Certificate</b>		
98	1	The Permit Holder shall provide the District with access to all crude lightering operations conducted in the San Francisco Bay and to be delivered to the Benicia Refinery for which Permit Holder, SeaRiver shipping, or any other affiliated company is responsible. Access to lightering operations shall be provided via the regularly scheduled water-taxi service. [Basis: Banked POC Credits]	Y	
98	2	The Permit Holder shall provide a listing and voyage history for all ships delivering crude to the Benicia Refinery, calculate emissions using the emission factors and condition #6, provide pressure charts required in condition #8, and submit a report on a quarterly basis to the district. [Basis: Reporting, Compliance Verification]	Y	
98	3	On a quarterly basis, the Permit Holder shall provide the district with copies of all U.S. Army Corporation of Engineers form 3925 for all material transferred by or for Permit Holder in the San Francisco Bay for delivery to the Benicia Refinery. [Basis: Reporting]	Y	
98	4	On a quarterly basis, the Permit Holder shall provide verification of each controlled transfer. [Basis: Reporting]	Y	
98	5	The Permit Holder shall limit all lightering emissions of crude delivered to the Benicia Refinery to 48 tons per year. [Basis: Banked POC Credits]		Y
98	6	The Permit Holder shall use the following emission factors: Controlled, lb/103 gal Ships- 0.04 Barges- 0.05, Uncontrolled, lb/mgal Ships- 0.80 Barges- 1.0 [Basis: Banked POC Credits]	Y	
98	7	The highest pressure developed during the lightering shall not exceed 80% of the lowest relief valve set pressure of either vessel involved in the transfer. Pressure excursions not exceeding 15 minutes cumulative duration during a lightering transfer and not causing lifting of any pressure relief device shall be allowed. [Basis: VOC Minimization]	Y	
98	8	The pressure developed in the vessel tanks during lightering shall be continuously recorded while the vessel is in District waters. [Basis Banked POC credits]	Y	
98	9	The tanks of all vessels involved in a lightering operation using the controlled emission factors shall be tested to verify that there is no leakage at 80% of the lowest relief valve set pressure at least once every three years. This test shall be done at the completion of refurbishing ("Dry Dock") and shall test the entire system, manifold, pressure relief valves, hatch covers, etc. an OVA, bubble test, or other equivalent procedure approved by the APCO may be used. [Basis: VOC Minimization]	Y	
98	10	During controlled lightering operations, both vessels' inert gas systems shall be isolated from the vapor space of the cargo tanks. If inert gas is	Y	

## IV. Source Specific Applicable Requirements

generated during the transfer of cargos, the emissions for that transfer shall be calculated using the uncontrolled emissions factors. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be allowed.  
[Basis: Cumulative Increase]

**Table IV - F1**  
**Source-Specific Applicable Requirements**  
**Marine Loading**  
**S-129 (LD-129)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.014		<b>LVB Banking Certificate</b>		
98	11	A fugitive emissions maintenance program will be implemented on each lighter vessel used by Permit Holder. A complete survey of all above-deck equipment will be performed by Permit Holder once per quarter. [Basis: Cumulative Increase]	Y	
98	12	Using an OVA, bubble test, or other procedure approved by the APCO, a survey of all in-service pressure relief valves on both vessels will be conducted prior to completion of 20% of the cargo transfer and repeated at least once after transferring 60% of the cargo. A leak shall be defined as a reading in excess of 10,000 ppmv, as methane. All readings in excess of 10,000 ppmv, as methane, shall be noted by source and maximum concentration. If any leak cannot be repaired, or valve removed from service, within 15 minutes of detection, the uncontrolled emission factors of condition #6 shall be used to calculate emissions for the entire lightering event. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be used. All survey results shall be summarized in the report required by condition #2. [Basis: RACT]	Y	
98	13	Vessels involved in controlled lightering events shall not perform an operations that result in venting crude oil cargo vapors in District waters. These operations include as example: open cargo inspections, open gauging, gas freeing of tanks for maintenance or inspection, or venting of ballast loading emissions. When any such venting operation is required, the circumstances of the incident will be logged, along with pertinent information such as tank volume, contents, and pressure before an after venting. The uncontrolled emission factors of condition #6 shall be used to calculate emissions for the entire loading operation. If Permit Holder can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be used. These emissions will be added to the emissions calculations and reported under condition #2. [Basis: Cumulative Increase]	Y	
8.2.018		<b>Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock</b>		
1709	1	The Permit Holder shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - F1**  
**Source-Specific Applicable Requirements**  
**Marine Loading**  
**S-129 (LD-129)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date												
8.2.018		<b>Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock</b>														
1709	2	The organic emissions shall be calculated as the sum of the volume of gasoline loaded on each vessel multiplied by the appropriate emission factor listed below. [Basis: Cumulative Increase]	Y													
		<table><tr><td></td><td>UNCONTROLLED</td><td>CONTROLLED EMISSION FACTOR</td></tr><tr><td></td><td>LB VOC/1000 GAL</td><td>LB VOC/1000 GAL</td></tr><tr><td>Ship</td><td>1.80</td><td>0.22</td></tr><tr><td>Barge</td><td>3.40</td><td>0.30</td></tr></table>		UNCONTROLLED	CONTROLLED EMISSION FACTOR		LB VOC/1000 GAL	LB VOC/1000 GAL	Ship	1.80	0.22	Barge	3.40	0.30		
	UNCONTROLLED	CONTROLLED EMISSION FACTOR														
	LB VOC/1000 GAL	LB VOC/1000 GAL														
Ship	1.80	0.22														
Barge	3.40	0.30														
1709	3	The John Zink abatement system, A-29, shall be designed for at least 95%, by weight abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]	Y													
1709	4	The Permit Holder shall maintain a log of each mogas loading across the dock, listing the date, vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]		Y												
1709	5	The Permit Holder shall install a continuous emission monitor and recorder for mass VOC emission at A-29 discharge emission point, unless Permit Holder can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with condition 3. [Basis: Cumulative Increase]		Y												
1709	6	The Permit Holder shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]	Y													
1709	7	The Permit Holder shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]		Y												
1709	8	Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The uncontrolled emission factor in condition 2 shall be used to determine the emissions from such loading operations. If Permit Holder can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]	Y													
1709	9	Permit Holder shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers and etc. [Basis: Cumulative Increase]	Y													
1709	10	If the testing in condition 9 demonstrates a leakage rate greater than 5% of the total volume, the emissions for any leak exceeding 5% of the total volume shall be calculated using worst case assumptions, highest vapor pressure and saturated vapor space. The calculated emissions shall then be added to the total used to determine compliance with condition 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]	Y													

## IV. Source Specific Applicable Requirements

**Table IV - F1**  
**Source-Specific Applicable Requirements**  
**Marine Loading**  
**S-129 (LD-129)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.2.018		<b>Permit to Operate S-129 (A-29) Marine Gasoline Loading Dock</b>		
1709	11	If the calculations required by condition 10 result in exceeding condition 1, the Permit Holder shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]	Y	
1709	12	The Permit Holder shall conduct a leak test on all vessel relief valves, hatch covers, gauging connections and any other potential leaking points for every vessel used in vapor- controlled loading more than twice per year. Testing shall be done on an average of every ten loads for each vessel. Testing shall be done during loading operations. If any emission point that reads greater than 10,000 ppm (as methane) as determined by a portable hydrocarbon analyzer (OVA), that load shall be considered uncontrolled. All subsequent loads by that vessel shall also be considered uncontrolled until a leak test result lower than 10,000 ppm is achieved. Leak test results shall be submitted to the BAAQMD with each quarterly report. Concentrations shall be read I centimeter downstream of any discharge point. If Permit Holder can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: RACT, Cumulative Increase]		Y
1709	16	The Permit Holder shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: Cumulative Increase]	Y	



## IV. Source Specific Applicable Requirements

**Table IV - G1**  
**Source-Specific Applicable Requirements**  
**Solvent Cleaning Operations**  
**S-177 (NO TAG)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 16</b>	<b>Organic Compounds, Solvent Cleaning Standards (09/16/1998)</b>		
8-16-118	Limited Exemption, Compounds with Low Volatility	N	
8-16-118.2	Cold Cleaners	N	
8-16-122	Limited Exemption, Permitted Cold Cleaners	N	
8-16-303	Cold Cleaner Requirement	N	
8-16-303.1	General Operating Requirements	N	
8-16-303.1.1	Operate and Maintain in Proper Working Order	Y	
8-16-303.1.2	Leak Repair Requirements	Y	
8-16-303.1.3	Solvent Storage or Disposal - Evaporation Prevention	Y	
8-16-303.1.4	Waste Solvent Disposal	N	
8-16-303.1.4.a	Covered Containers for Waste Solvent Awaiting Pick-Up	N	
8-16-303.1.5	Solvent Evaporation Minimization Devices Shall not be Removed	N	
8-16-303.2	Cold Cleaner Operating Requirements	Y	
8-16-303.2.1	Solvent Shall be Drained from Cleaned Parts	Y	
8-16-303.2.2	Solvent Agitation	Y	
8-16-303.2.3	Solvent Cleaning of Porous or Absorbent Materials is Prohibited	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	N	
8-16-303.3.1	Container	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	N	
8-16-303.3.3	Used Solvent Returned to Container	N	
8-16-303.3.4	Label Starting Operating Requirements	Y	
8-16-501	Solvent Records	N	
8-16-501.2	Facility-wide annual Solvent Usage Records	N	
8-16-501.3	Annual Records of Type and Amount of Solvent Used for Wipe Cleaning	N	
8-16-501.5	Records Retained for Previous 24-month Period	N	
8-16-501.6	Records Such as Manifests Shall be Retained	N	
8-16-502	Burden of Proof	Y	
<b>SIP Regulation 8 · Rule 16</b>	<b>Organic Compounds, Solvent Cleaning Standards (06/15/1994)</b>		
8-16-303	Cold Cleaner Requirement	Y	
8-16-303.1	General Operating Requirements	Y	
8-16-303.1.4	Waste Solvent Disposal	Y	
8-16-303.1.4.a	Covered Containers for Waste Solvent Awaiting Pickup	Y	
8-16-303.1.5	Solvent Evaporation Minimization Devices Shall not be Removed	Y	
8-16-303.3	Cold Cleaner General Equipment Requirements	Y	
8-16-303.3.2	Solvent Evaporation Reduction for Idle Equipment	Y	
8-16-303.3.3	Used Solvent Returned to Container	Y	
8-16-501	Solvent Records	Y	
8-16-501.2	Facility-wide annual Solvent Usage Records	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H1.1**  
**Source-Specific Applicable Requirements**  
**Wastewater Equalization Ponds**  
**S-151 (WWT-2001)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
40CFR61SubpartFF60.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	
8.2.008	<b>Permit to Operate Clean Fuels Project</b>		
10574	1 Any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) shall be equipped with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, offsets, Toxics]a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure. b) equipped with a "canned" pump. c) equipped with a magnetically driven pump.	Y	
10574	4 All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
10574	5 Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
10574	7 All flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. Deleted. [Basis: BACT, Offsets, Cumulative Increase, Toxics]	Y	
10574	10 The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	Y	
10574	11 All process drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H1.1**  
**Source-Specific Applicable Requirements**  
**Wastewater Equalization Ponds**  
**S-151 (WWT-2001)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.008	<b>Permit to Operate Clean Fuels Project</b>		
10574	12 Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1025, S-220, S-227, S-1007, S-1011, S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (11/12/2002)</b>		
61.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	

**Table IV - H1.2**  
**Source-Specific Applicable Requirements**  
**Wastewater Retention Ponds**  
**S-156 (WWT-2000)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-114	Exemption, Bypassed Oil-Water Separator or Air flotation Influent	Y	
8-8-501	API Separator or Air Flotation Bypassed Wastewater Records	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (11/12/2002)</b>		
61.355(k)(1)	Total Benzene Quantity (TBQ) Quantification	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H2.1**  
**Source-Specific Applicable Requirements**  
**Biotreaters**

**S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B, BIOX-2001, NO TAG)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (11/12/2002)</b>		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(c)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units--Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H2.2**  
**Source-Specific Applicable Requirements**  
**Biotreaters**  
**S-214, S-215 (TK-2065, TK-2064)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (01/07/1993)</b>		
40 CFR 61.348(a)	Standards: Treatment Processes	Y	
40 CFR 61.348(c)(1)	Standards: Treatment Processes	Y	
40 CFR 61.348(g)	Standards: Treatment Processes	Y	
40 CFR 61.354(a)	Monitoring of Operations; Treatment process and units	Y	
40 CFR 61.354(a)(2)	Monitoring of Operations; Treatment process and units--Continuously monitor process parameters	Y	
40 CFR 61.354(b)	Monitoring of Operations	Y	
40 CFR 61.354(b)(2)	Inlet benzene monitored monthly	Y	
8.3.002	<b>Permit to Operate S-214 BIOX Aerator &amp; S-215 BIOX Clarifier</b>		
7015	1 The operation of S-214 (BIOX Aerator) and S-215 (BIOX Clarifier) shall not produce odors in such quantities as to cause a public nuisance under Regulation 1-301. [Basis: Public Nuisance]	Y	

**Table IV - H3**  
**Source-Specific Applicable Requirements**  
**Sewer Pipeline**  
**S-161 (SEW-2001)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-308	Junction Box: Equipped with either a solid, gasketed, fixed cover totally enclosing the junction box or a solid manhole cover. May include openings in covers/vent pipes if total open area does not exceed 12.6 square inches and vent pipes are 3 ft long.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.1**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-188 (VARIOUS)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 8</b>			
<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>			
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993)</b>			
<b>Subpart FF</b>			
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
<b>Permit to Operate S-188 and S-189</b>			
8.2.010 4882	1 For sources S-188 and S-189, the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) shall be vented to the existing flare (S-18) at all times. [Basis: Cumulative Increase]	Y	
4882	2 S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

<b>Applicable Requirement</b> <b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Regulation Title or Description of</b> <b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-8-302	Wastewater separators rated capacity larger than or equal to 18.9 liters per second (300 gal/min), must be equipped with:	Y	
8-8-302.3	A vapor-tight fixed cover with organic compound vapor recovery, or system that has combined collection & destruction efficiency of at least 95%, by weight. Inspection/access hatches shall be closed except for inspection, maintenance, or wastewater sampling.	Y	
8-8-303	Gauging and Sampling Devices	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993)</b>			
<b>Subpart FF</b>			
40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y	
40 CFR 61.340(c)	Applicability: Exempt Waste	Y	
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y	
40 CFR 61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 61.349(e)	Performance Demonstration--Performance tests Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	



## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
		<b>For S-194, S-195, S-197, and S-198:</b>		
13319	1	The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]	Y	
13319	2	The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
13319	3	The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
13319	4	The minimum oxidation temperature of A-57 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
13319	5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
13319	6	This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	7	The minimum temperature requirement of Condition 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
13319	8	No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NOx, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)	Y	
13319	9	The total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 shall not exceed 3000 gallons per minute. [Basis: Cumulative Increase]	Y	
13319	10	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	11 The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
13319	14 These sources shall be abated by two 700 lb (minimum) carbon canisters in series Y (A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]		
13319	15 The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
13319	16 NMHC shall be determined from the continuously monitored flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
13319	17 To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H4.2**  
**Source-Specific Applicable Requirements**  
**CPS Units**  
**S-194, S-195 (2006, 2056)**

<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	18 A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H5.1**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-189 (VARIOUS)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit: Any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gal/min unless is equipped with:	Y	
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (01/07/1993)</b>		
40 CFR 61.347(a)	Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
40 CFR 61.347(a)(1)	Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control	Y	
40 CFR 61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof--No openings	Y	
40 CFR 61.347(a)(1)(ii)	Closed-vent systems are subject to 61.349.	Y	
40 CFR 61.347(b)	Cover seals, access hatches , and other openings shall be checked visually initially and quarterly thereafter to ensure no cracks, gaps occur between the cover and wall and that access hatches are closed and gasketed	Y	
40 CFR 61.347(c)	except for delay or repair, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts repairs shall be made AS SOON AS POSSIBLE, but not later than 15 calendar days after	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC</b>	<b>NESHAPS for Petroleum Refineries (06/12/1996)</b>		
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
8.2.010	<b>Permit to Operate S-188 and S-189</b>		
4882	1 For sources S-188 and S-189, the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) shall be vented to the existing flare (S-18) at all times. [basis: Cumulative Increase]	Y	

#### IV. Source Specific Applicable Requirements

4882	2	S-188 and S-189 shall not be operated over the design capacities (700 gallons per minute). [basis: Cumulative Increase]	Y
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## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-303	Gauging and Sampling Devices	Y	
8-8-307	Air Flotation Unit: Any air flotation unit and/or pre-air flotation unit flocculation sump, basin, chamber or tank with a maximum allowable capacity greater than 400 gal/min unless is equipped with:	Y	
8-8-307.2	An organic compound vapor recovery system with a minimum combined collection/destruction efficiency of 70% by weight.	Y	
8-8-602	Determination of Emissions	Y	
8-8-603	Inspection Procedures	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (01/07/1993)</b>		
40 CFR 61.347(a)	Except as provided in 61.352 of this subpart, each oil-water separator shall meet the following standards:	Y	
40 CFR 61.347(a)(1)	Install, operate, and maintain a fixed-roof and closed vent system that routes all organic vapors vented from the oil-water separator to a control	Y	
40 CFR 61.347(a)(1)(i)(B)	Standards: Oil-Water Separators; Fixed roof--No openings	Y	
40 CFR 61.347(a)(1)(ii)	Closed-vent systems are subject to 61.349.	Y	
40 CFR 61.347(b)	Cover seals, access hatches , and other openings shall be checked visually initially and quarterly thereafter to ensure no cracks, gaps occur between the cover and wall and that access hatches are closed and gasketed	Y	
40 CFR 61.347(c)	except for delay or repair, when a broken seal or gasket or other problem is identified, or when detectable emissions are measured, first efforts repairs shall be made AS SOON AS POSSIBLE, but not later than 15 calendar days after	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)	Standards: Closed-Vent Systems and Control Devices; Closed vent system requirements	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	



## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
	<b>FOR S-194, S-195, S-197, and S-198:</b>		
13319	1 The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method [Basis: BAAQMD 2-2-112]	Y	
13319	2 The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
13319	3 The VOC construction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
13319	4 The minimum outlet temperature of A-57 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
13319	5 The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
13319	6 This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	7	The minimum temperature requirement of Condition 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
13319	8	No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NOx, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)	Y	
13319	9	The total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 shall not exceed 3000 gallons per minute. [Basis: Cumulative Increase]	Y	
13319	10	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

<b>Applicable Condition</b>		<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	11	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
13319	14	These sources shall be abated by two 700 lb (minimum) carbon canisters in series Y (A-37) and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]		
13319	15	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]	Y	
13319	16	NMHC shall be determined from the continuously monitored flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [cumulative increase]	Y	
13319	17	To demonstrate compliance with Condition 15, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout. [cumulative increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H5.2**  
**Source-Specific Applicable Requirements**  
**ISF Units**  
**S-197, S-198 (2007, 2057)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
13319	18 A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: cumulative increase]	Y	

**Table IV - H6**  
**Source-Specific Applicable Requirements**  
**BIOX Sludge Thickener**  
**S-192 (TK-2052)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501.1	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	

## IV. Source Specific Applicable Requirements

**Table IV - H7**  
**Source-Specific Applicable Requirements**  
**Wastewater Biox Sludge**  
**S-217, S-218, S-219 (TK-791NSD, TK-424SD, TK-131SD)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>BAAQMD · Regulation 8 · Rule 8</b>	<b>Organic Compounds, California Wastewater (Oil-Water) Separators (06/15/1994)</b>		
8-8-113	Exemption, Secondary Wastewater Treatment Processes and Stormwater Sewer Systems	Y	

## IV. Source-Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-9 Flare Gas Rec. System	X								X
S-51 HCU Feed Filter R-410A	X		X (1)		X (1)				X
S-52 HCU Feed Filter R-410B	X		X (1)		X (1)				X
S-129 Crude/Product Dock	X								
S-188 OMS OWS	X			X (3)					
S-189 OMS ISF	X			X (3)					
S-201 WWT Vacuum Truck Load.	X			X (3)			X		
S-202 WWT Vacuum Truck Load.	X			X (3)			X		
S-209 Methanol/Ethanol Truck Unload.	X								
S-231 Aqueous NH3 Drum									
S-1002 Diesel Hydrofiner	X		X (1)		X (1)				X
S-1003 Hydrocracker (HCU)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X

## IV. Source Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1004 Powerformer	X								X
S-1005 Catalytic Feed Hydro.	X		X (1)		X (1)				X
S-1006 Pipestill Unit	X	COND 815 1, 2	X (1)		X (1)				X
S-1007 Alkylation Unit	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12, 52	X (1)		X (1)				X
S-1008 Gasoline Hydrofiner	X		X (1)		X (1)				X
S-1009 Jet Fuel Hydrofiner	X		X (1)		X (1)				X
S-1010 Hydrogen Plant	X	COND 15512 1							
S-1011 Heavy Cat Naphtha Hydrofiner	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1012 Dimersol Unit	X		X		X				
S-1014 Cat Light Ends	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X

## IV. Source Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1020 Heartcut Tower (MRU), except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1021 Heartcut Sat Unit (MRU) except for Heartcut Stream	X	COND 10574 1, 4, 5, 7, 8 10, 11, 12	X (1)		X (1)				X
S-1022 Cat Ref T90 Tower MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1023 Cat Nap T90 Tower MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
S-1024 Lt Cat Nap Hydrotreater MRU	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X



## IV. Source Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
S-1026 C5/C6 Splitter (MRU)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)				X
Heartcut Stream (MRU) (2)	X	COND 10574 1, 4, 5, 7, 8, 10, 11, 12	X (1)		X (1)	X (1)		X (1)(4)	X
S-1030 Combustion Turbine Generator (CoGen Phase I)	X		X		X				
S-1031 Heat Recovery Steam Generator (CoGen Phase I)	X								
S-1032 Combustion Turbine Generator (CoGen Phase II)	X		X		X				
S-1033 Heat Recovery Steam Generator (CoGen Phase II)	X								
Fluid Coker	X								X
Vapor Recovery Compressors A-46/47 (C-1704 A/B) at S-227	X		X		X				

## IV. Source Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
Vapor Recovery Compressors A-40/41 (C-1702 A/B) at S-65, S-69, S-70, S-71	X		X		X				
Compressor C-101C at S-1006	X		X		X				
Fluid Catalytic Cracking Unit	X		X (1)		X (1)				X
Fuel Gas Scrubbing, Blending, Compression, MEA	X								
Sulfur Gas Unit (FG piping)	X								
Sour Water System	X								
Tail Gas Unit (FG piping)	X								
Utilities (FG piping)	X								
Virgin Light Ends, excluding S-1002, S-1008, and S-1009	X		X (1)		X (1)				X
Wastewater Treatment Plant	X			X (3)			X		
Railcar Loading/Unloading Rack S-1027	X	COND 17835 1, 2, 3							
Truck Loading/Unloading Rack	X								
OM-12 Area – Light Ends	X								
OM-13 Areas:									
Intermediate Feed Storage	X								X

## IV. Source Specific Applicable Requirements

<b>Table IV- X</b> <b>Fugitive Sources: Applicable Requirements</b>									
Process Unit	BAAQMD Reg. 8-18 and Reg. 8-28	BAAQMD Permit Conditions (4)	NSPS Part 60, Subpart GGG; BAAQMD Reg. 10-59	NSPS Part 60, Subpart QQQ; BAAQMD Reg. 10-69	NSPS Part 60, Subpart VV; BAAQMD Reg. 10-52	NESHAPS Part 61, Subpart J	NESHAPS Part 61, Subpart FF; BAAQMD Reg. 11-12	NESHAPS Part 61, Subpart V; BAAQMD Reg. 11-7	NESHAPS Part 63, Subpart CC
Distillate Storage	X								X
Pipestill Feed	X								X
Slop System	X								X
COKER Feed Tank VRS	X								
OM-14/Dock Areas:									
Dock and DVRU	X								
Crude Field	X								X
Product Tanks	X								X
Product Pump Pad	X								X
Sulfur and Ammonia									
Day Tanks	X								
OM-15 Areas:									
Mogas Component Tanks	X								X
Blending System	X								X
PFMR/MTBE Feed	X								X
Cat C5 VRS	X								

Notes:

(1) Per 63.640 (p), equipment leaks that are also subject to Part 60 (NSPS) and Part 61 (NESHAPS) are only required to comply with Part 63 (MACT).

(2) Part 61 Subparts J and V apply only to the fugitive components on the MRU Heartcut Stream located between the Heartcut Tower and the Heartcut Saturation Unit, upstream of the recycle stream (>10 weight. % benzene).

#### **IV. Source Specific Applicable Requirements**

- (3) Per 63.640(o)(1), equipment that is also subject to Part 60 (NSPS) Subpart QQQ is only required to comply with Part 63 (MACT) wastewater provisions (Part 61 Subpart FF).
- (4) Permit conditions are listed for fugitive emission sources that do not have other applicable requirements included in Table IV.

## IV. Source Specific Applicable Requirements

**Table IV –I**  
**Source-specific Applicable**  
**Requirements Fugitive Components**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 Rule 18</b>	<b>Organic Compounds, Equipment Leaks (01/07/1998)</b>		
8-18-110	Exemption, Controlled Seal Systems and Pressure Relief Devices	Y	
8-18-113	Limited Exemption, Initial Boiling Point	Y	
8-18-115	Limited Exemption, Storage Tanks	Y	
8-18-116	Limited Exemption, Vacuum Service	Y	
8-18-301	General	Y	
8-18-302	Valves	Y	
8-18-303	Pumps and Compressors	Y	
8-18-304	Connections	Y	
8-18-305	Pressure Relief Devices	Y	
8-18-306	Non-repairable Equipment	Y	
8-18-306.1	Non-repairable Equipment	Y	
8-18-306.2	Non-repairable Equipment	Y	
8-18-307	Liquid Leak	Y	
8-18-401	Inspection	Y	
8-18-402	Identification	Y	
8-18-403	Visual Inspection Schedule	Y	
8-18-404	Alternative Inspection Schedule	Y	
8-18-501	Portable Hydrocarbon Detector	Y	
8-18-502	Records	Y	
8-18-601	Analysis of Samples	Y	
8-18-602	Inspection Procedure	Y	
8-18-603	Determination of Control Efficiency	Y	
<b>BAAQMD Regulation 8 · Rule 28</b>	<b>Organic Compounds, Episodic Releases from Pressure Relief Devices (03/18/1998)</b>		
8-28-301	Standards: Pressure Relief Valve (Deleted: 12/17/1997)	N	
8-28-303	Pressure Relief Devices at Existing Sources at Petroleum Refineries	N	
8-28-304	Repeat Release - Pressure Relief Devices at Petroleum Refineries	N	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	N	
8-28-402	Inspection	N	
8-28-403	Records	N	
8-28-404	Identification	N	
8-28-405	Prevention Measures Procedures	N	
8-28-602	Determination of Control Efficiency	N	
<b>SIP · Regulation 8 · Rule 28</b>	<b>Organic Compounds, Episodic Releases from Pressure Relief Devices (06/1/1994)</b>		

## IV. Source Specific Applicable Requirements

**Table IV –I**  
**Source-specific Applicable**  
**Requirements Fugitive Components**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-28-301	Pressure Relief Valve--Alternative Comment	Y	
8-28-401	Reporting at Petroleum Refineries and Chemical Plants	Y	
8-28-402	Inspection	Y	
8-28-403	Records	Y	
8-28-404	Identification	Y	
8-28-602	Determination of Control Efficiency	Y	
<b>BAAQMD • Regulation 11 Rule 7•</b>	<b>Hazardous Pollutants, Benzene (5/18/1985)</b>		
11-7-213	Leak Definition	N	
11-7-301	General	N	
11-7-305	Sampling Connecting Systems	N	
11-7-306	Open-Ended Valves or Lines	N	
11-7-306.1	Open-Ended Valves or Lines	N	
11-7-306.2	Open-Ended Valves or Lines	N	
11-7-307.1	Valves	N	
11-7-310	Delay of Repairs	N	
11-7-310.1	Delay of Repairs	N	
11-7-310.4	Delay of Repairs	N	
11-7-313	Alternative Compliance for Valves-Skip Period Detection and Repair	N	
11-7-401	Inspection	N	
11-7-403	Semiannual Reports	N	
11-7-501	Monitoring	N	
11-7-502.1.4	Records	N	
11-7-502.1.5	Records	N	
11-7-601	Measurement for Benzene	N	
<b>NSPS Title 40 Part 60 Subpart VV</b>	<b>NSPS Subpart VV for Equipment Leaks of VOC in SOCM I</b>		
40 CFR 60.480	Applicability and Designation of Affected Facility	Y	
40 CFR 60.482-1	Standards: General	Y	
40 CFR 60.482-10	Standards: Closed vent systems and control devices	Y	
40 CFR 60.482-2	Standards: Pumps in light liquid service	Y	
40 CFR 60.482-3	Standards: Compressors	Y	
40 CFR	Standards: Pressure relief devices in gas/vapor service	Y	

## IV. Source Specific Applicable Requirements

**Table IV –I**  
**Source-specific Applicable**  
**Requirements Fugitive Components**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
60.482-4			
40 CFR 60.482-5	Standards: Sampling connection systems	Y	
40 CFR 60.482-6	Standards: Open-ended valves or lines	Y	
40 CFR 60.482-7(a)	Standards	Y	
40 CFR 60.482-7(b)	Standards	Y	
40 CFR 60.482-7(c)(1)	Standards	Y	
40 CFR 60.482-7(d)(1)	Standards	Y	
40 CFR 60.482-7(e)	Standards	Y	
40 CFR 60.482-7(f)	Standards	Y	
40 CFR 60.482-7(h)	Standards	Y	
40 CFR 60.482-8	Standards: Pumps & Valves in Heavy Liquid Service, Pressure Relief Devices in Light Liquid or Heavy Liquid Service, and Flanges & Other Connectors	Y	
40 CFR 60.482-9(a)	Standards	Y	
40 CFR 60.482-9(b)	Standards	Y	
40 CFR 60.482-9(c)	Standards	Y	
40 CFR 60.482-9(d)	Standards	Y	
40 CFR 60.483-1	Alternative Standards for Valves-Allowable Percentage of Valves Leaking	Y	
40 CFR 60.483-2	Alternative Standards for valves - skip period leak detection and repair	Y	
40 CFR 60.485	Test Methods and Procedures	Y	
40 CFR 60.486	Recordkeeping Requirements	Y	
40 CFR 60.487(d)	Reporting	Y	
40 CFR 60.487(f)	Reporting	Y	
<b>NSPS Title 40</b>	<b>NSPS GGG for Equipment Leaks of VOC in Petroleum</b>		

## IV. Source Specific Applicable Requirements

**Table IV –I**  
**Source-specific Applicable**  
**Requirements Fugitive Components**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>Part 60 Subpart GGG</b>	<b>Refineries (05/30/1984)</b>		
40 CFR 60.590	Applicability and Designation of Affected Facility	Y	
40 CFR 60.592	Standards		
40 CFR 60.593	Exceptions	Y	
<b>NESHAPS Title 40 Part 61 Subpart FF</b>	<b>NESHAPS, Benzene Waste Operations (01/07/1993)</b>		
40 CFR 61.345 (a)(1)(i)	Standards: Containers-no detectable emissions		
40 CFR 61.343(a)(1)(i) (A)	Standards: Tanks; Fixed Roof--No detectable emissions $\geq$ 500 ppmv; annual inspection	Y	
40 CFR 61.347(a)(1)(i) (A)	Standards: oil-water separators--No detectable emissions $>500$ ppm; annual inspection	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions $\geq$ 500 ppmv; annual inspection	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC</b>	<b>NESHAPS for Petroleum Refineries (06/12/1996)</b>		
40 CFR 63.640(p)	Applicability and Designation of Affected Source--Overlap of Subpart CC for equipment leaks	Y	
40 CFR 63.648	Equipment Leak Standards	Y	
40 CFR 63.648(a)	Equipment Leak Standards--Existing source comply with 40 CFR 60 Subpart VV and 63.648(b). New source comply with 40 CFR 63 Subpart	Y	
40 CFR 63.648(a)(1)	Equipment Leak Standards--Existing sources: 40 CFR 60 Subpart VV applies only to organic HAP service.	Y	
40 CFR 63.648(f)	Equipment Leak Standards--Reciprocating pumps in light liquid service	Y	
40 CFR 63.648(g)	Equipment Leak Standards--Compressors in hydrogen service	Y	
40 CFR 63.648(h)	Equipment Leak Standards--Record retention	Y	
40 CFR 63.654(d)	Reporting and Recordkeeping Requirements for Equipment Leaks	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 ·</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals,	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	lids		
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	

#### IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## **IV. Source Specific Applicable Requirements**

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 SOCMI HON G (01/27/1995)</b>			
<b>Subpart G</b>			
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J1**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank; with Permit Conditions**  
**S-57 (TK-1701)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.2.068	<b>Permit to Operate TK-1701 Steam Coils</b>		
8564	1 Tank 1701 (S-57) shall not be heated while storing "light" crude oil. [Basis: Cumulative Increase]	Y	
8564	2 The maximum vapor pressure of material stored in TK1701 shall not exceed 3.5 psi. [Basis: Cumulative Increase]	Y	
8564	3 The following fugitive equipment, installed under Application #9817 to comply with 40 CFR 61, Subpart FF (Benzene Waste NESHAPS), shall be monitored, maintained, and repaired in accordance with the NESHAPS: 97 valves, 294 flanges, 3 pumps [Basis: Cumulative Increase; Offsets]	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid	Y	

## IV. Source Specific Applicable Requirements

	surface		
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
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## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NESHAPS Title 40 Part 63 Subpart G</b>	<b>SOCMI HON G (01/27/1995)</b>		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J2**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-58 (TK-1702)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J3**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers,	Y	



## IV. Source Specific Applicable Requirements

	seals, lids		
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J3**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 SOCMI HON G (01/27/1995)</b>			
<b>Subpart G</b>			
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J3**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(2)(ii)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(2)(iii)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(3)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(4)	Compliance--External FR primary seal gap calculation method Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)	Compliance--External FR secondary seal gap calculation method Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)(i)	Compliance--External FR primary seal requirements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)(ii)	Compliance--External FR primary seal requirements metallic shoe Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)	Compliance--External FR primary seal, no holes Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)(i)	Compliance--External FR secondary seal requirements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)(ii)	Compliance--External FR secondary seal location Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)	Compliance--External FR secondary seal, no holes Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)(i)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)(ii)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(8)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
40 CFR 63.120(b)(9)	External FR Repairs Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
40 CFR 63.120(b)(10)	External FR seal gap measurement 30 day notification Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(10)(i)	Compliance--External FR and seals visual inspection each time emptied Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(10)(ii)	Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J3**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions--Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J3**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-59, S-60, S-61, S-62, S-86 (TK-1703, TK-1704, TK-1705, TK-1706, TK-1758)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J4**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below	Y	

#### IV. Source Specific Applicable Requirements

	liquid surface		
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	

#### **IV. Source Specific Applicable Requirements**

8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	



## IV. Source Specific Applicable Requirements

### Table IV - J4 Source-Specific Applicable Requirements

#### External Floating Roof Tanks S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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### Table IV - J4 Source-Specific Applicable Requirements

#### External Floating Roof Tanks S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 Subpart G</b>	<b>SOCMI HON G (01/27/1995)</b>		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine	Y	

#### **IV. Source Specific Applicable Requirements**

40 CFR 63.120(b)(2)(i)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y
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## IV. Source Specific Applicable Requirements

**Table IV - J4**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(2)(ii)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(2)(iii)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(3)	Compliance--External FR and seal gap determination methods Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(4)	Compliance--External FR primary seal gap calculation method Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)	Compliance--External FR secondary seal gap calculation method Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)(i)	Compliance--External FR primary seal requirements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(5)(ii)	Compliance--External FR primary seal requirements metallic shoe Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)	Compliance--External FR primary seal, no holes Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)(i)	Compliance--External FR secondary seal requirements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(6)(ii)	Compliance--External FR secondary seal location Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)	Compliance--External FR secondary seal, no holes Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)(i)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(7)(ii)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(8)	Compliance--External FR unsafe to perform seal measurements Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
40 CFR 63.120(b)(9)	External FR Repairs Storage Vessel Provisions -- Procedures to Determine Compliance	Y	
40 CFR 63.120(b)(10)	External FR seal gap measurement 30 day notification Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(10)(i)	Compliance--External FR and seals visual inspection each time emptied Storage Vessel Provisions . Procedures to Determine	Y	
40 CFR 63.120(b)(10)(ii)	Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J4**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions--Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J4**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-63, S-66, S-68 (TK-1711, TK-1714, TK-1716)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J5**  
**Source-Specific Applicable Requirements**

### External Floating Roof Tanks

**S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)**

Applicable	Regulation Title or	Federally Enforceable	Future Effective
<b>BAAQMD · Regulation 8 · Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below	Y	

#### IV. Source Specific Applicable Requirements

	liquid surface		
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J5**  
**Source-Specific Applicable Requirements**

### External Floating Roof Tanks

**S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)**

Applicable	Regulation Title or	Federally Enforceable	Future Effective
<b>NESHAPS Title 40 Part 63 SOCMI HON G (01/27/1995)</b>			
<b>Subpart G</b>			
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J5**  
**Source-Specific Applicable Requirements**

### External Floating Roof Tanks

**S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)**

Applicable	Regulation Title or	Federally Enforceable	Future Effective
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

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**Subpart CC**

## IV. Source Specific Applicable Requirements

**Table IV - J5**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**

**S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)**

<b>Applicable</b>	<b>Regulation Title or</b>	<b>Federally Enforceable</b>	<b>Future Effective</b>
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J5**  
**Source-Specific Applicable Requirements**

### External Floating Roof Tanks

**S-64, S-73, S-74, S-75, S-76, S-77, S-78, S-79, S-80, S-82 (TK-1712, TK-1733, TK-1734, TK-1736, TK-1737, TK-1738, TK-1739, TK-1751, TK-1752, TK-1754)**

Applicable	Regulation Title or	Federally	Future
	with external floating roofs		Effective
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below	Y	

#### IV. Source Specific Applicable Requirements

	liquid surface		
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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**Subpart G**

40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	

#### IV. Source Specific Applicable Requirements

40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y

## IV. Source Specific Applicable Requirements

**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J6**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks**  
**S-72, S-83, S-84, S-92 (TK-1720, TK-1755, TK-1756, TK-1771)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J7**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-97 (TK-1776)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	

#### IV. Source Specific Applicable Requirements

8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank Fitting Requirements; Solid sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.4.2	Tank Fitting Requirements; Solid sampling or gauging well requirements--cover, seal, or lid	Y	
8-5-320.4.3	Tank Fitting Requirements; Solid sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.3	Secondary seal requirements; Seal gaps (applicable as long as secondary seal is not zero-gap seal as defined in 8-5-322.5)	Y	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985 (becomes applicable when secondary seal is considered newly installed and subject to zero-gap seal gap requirements)	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J7**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-97 (TK-1776)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 SOCMI HON G (01/27/1995)</b>			
<b>Subpart G</b>			
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J7**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-97 (TK-1776)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J7**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-97 (TK-1776)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements,.	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J7**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank**  
**S-97 (TK-1776)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
8.2.042	<b>Permit to Operate S-97 (TK-1776) Storage Tank of JP-4 and Mogas</b>		
10633	1 The total daily throughput of product from S-97 shall be recorded in a District approved log. This record shall be retained for a period of at least five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: 2-6-503]	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J8**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart K External Floating Roof Tank**  
**S-163 (TK-1732)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5 Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service, Notification	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service, Notification, 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service, Notification, Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service, Tank in compliance prior to notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service, Floating roof tanks	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service, Minimize emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service, Notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service, Satisfy requirements of 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation, Notification	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation, Notification, 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation, Notification, Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation, Tank in compliance prior to start of work. Certified per 8-5-404	Y	
8-5-112.3	Limited Exemption, Tanks in Operation, No product movement, Minimize emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation, Not to exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank Fitting Requirements; Floating roof tanks	Y	
8-5-320.2	Tank Fitting Requirements; Floating roof tanks, Projection below liquid surface	Y	
8-5-320.3	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids	Y	

#### IV. Source Specific Applicable Requirements

8-5-320.3.1	Tank Fitting Requirements; Floating roof tanks, Gasketed covers, seals, lids - Gap requirements	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-320.5.3	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--gap between well and roof	Y	
8-5-321	Primary Seal Requirements	Y	
8-5-321.1	Primary Seal Requirements; No holes, tears, other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements--geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements--welded tanks	Y	
8-5-322	Secondary Seal Requirements	Y	
8-5-322.1	Secondary Seal Requirements; No holes, tears, other openings	Y	
8-5-322.2	Secondary Seal Requirements; Insertion of probes	Y	
8-5-322.5	Secondary Seal Requirements; Welded external floating roof tanks with seals installed after 9/4/1985 or welded internal floating roof tanks with seals installed after 2/1/1993	Y	
8-5-322.6	Secondary Seal Requirements; Extent of seal	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters, Approved Emission Control System	Y	
8-5-328.2	Tank Degassing Requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information Required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid, type of blanket gas, TVP - Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks, Seal Replacement Records - Retain 10 years	Y	
8-5-503	Portable Hydrocarbon Detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J8**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart K External Floating Roof Tank**  
**S-163 (TK-1732)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Title 40 Part 60 Subpart K</b>	<b>NSPS Subpart K for Petroleum Liquids Storage Vessels Constructed between `73-`78 (04/04/1980)</b>		
40 CFR 60.110(a)	Applicability and Designation of Affected Facility; Affected facility	Y	
40 CFR 60.110(c)(2)	Applicability and Designation of Affected Facility-->65,000 gal after 6/11/1973 and before 5/19/1978.	Y	
40 CFR 60.112(a)(1)	Standard for Volatile Organic Compounds (VOC)-Petroleum Liquid storage-Floating roof or vapor recovery TVP greater than or equal to 1.5 psia and less than or equal to 11.1 psia.	Y	
40 CFR 60.113(a)	Monitoring of Operations--Petroleum liquid storage records.	Y	
40 CFR 60.113(b)	Monitoring of Operations--Determination of TVP by API method	Y	
<b>NESHAPS Title 40 Part 63 Subpart G</b>	<b>SOCMI HON G (01/27/1995)</b>		
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(c)	Storage Vessel Provisions . Reference Control Technology--External floating roof	Y	
40 CFR 63.119(c)(1)	Storage Vessel Provisions . Reference Control Technology--External floating roof seals	Y	
40 CFR 63.119(c)(1)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof double seals required	Y	
40 CFR 63.119(c)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof primary seal requirements	Y	
40 CFR 63.119(c)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof seal requirements	Y	
40 CFR 63.119(c)(3)	Storage Vessel Provisions . Reference Control Technology--External floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(c)(3)(i)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(3)(iii)	Storage Vessel Provisions . Reference Control Technology--External floating roof exception	Y	
40 CFR 63.119(c)(4)	Storage Vessel Provisions . Reference Control Technology--External Floating Roof Operations, when not floating	Y	
40 CFR 63.120(b)	Storage Vessel Provisions . Procedures to Determine Compliance--Compliance Demonstration--External floating roof	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J8**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart K External Floating Roof Tank**  
**S-163 (TK-1732)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal gap measurement	Y	
40 CFR 63.120(b)(1)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals primary seal gap measurement	Y	
40 CFR 63.120(b)(1)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR with double seals secondary seal gap	Y	
40 CFR 63.120(b)(1)(iv)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR seal inspections prior to tank refill after service	Y	
40 CFR 63.120(b)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(2)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal gap determination methods	Y	
40 CFR 63.120(b)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal gap calculation method	Y	
40 CFR 63.120(b)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal gap calculation method	Y	
40 CFR 63.120(b)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements	Y	
40 CFR 63.120(b)(5)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal requirements metallic shoe	Y	
40 CFR 63.120(b)(5)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR primary seal, no holes	Y	
40 CFR 63.120(b)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal requirements	Y	
40 CFR 63.120(b)(6)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal location	Y	
40 CFR 63.120(b)(6)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR secondary seal, no holes	Y	
40 CFR 63.120(b)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(7)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR unsafe to perform seal measurements	Y	
40 CFR 63.120(b)(8)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR Repairs	Y	
40 CFR 63.120(b)(9)	Storage Vessel Provisions -- Procedures to Determine Compliance External FR seal gap measurement 30 day notification	Y	
40 CFR 63.120(b)(10)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seals visual inspection each time emptied	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J8**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart K External Floating Roof Tank**  
**S-163 (TK-1732)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.120(b)(10)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal repairs [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR	Y	
40 CFR 63.120(b)(10)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections 30 day notification	Y	
40 CFR 63.120(b)(10)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--External FR and seal inspections -Notification for unplanned	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(d)	Storage Vessel Provisions . Recordkeeping--Group 1 External floating	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(n)(5)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 also subject to K or Ka only subject to this	Y	
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y	
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y	
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y	
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y	
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions-Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements..	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(3)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J8**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart K External Floating Roof Tank**  
**S-163 (TK-1732)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.654(g)(3)(i)(A)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(i)(D)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(g)(3)(iii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with external floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum	Y	

## IV. Source Specific Applicable Requirements

	breaker vents		
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seal requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seal requirements Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seal requirements Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NSPS Title 40 Part 60 Subpart Kb</b>	<b>NSPS Subpart Kb for Tanks (08/11/1989)</b>		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
40 CFR 60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
40 CFR 60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8).	Y	
40 CFR 63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(i)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(vi)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.006		<b>Permit to Operate S-207 (TK-1740) MTBE/Mogas Storage Tank</b>		
10797	1	The total release of emissions from this S-207 project for delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, shall not exceed in any rolling 365 consecutive day period the following limit: [Basis: Cumulative Increase] Pollutant    Tons        NOx        36.7        CO        3.7 POC        8.1        SO2        9.5        PM10      1.6	Y	
10797	2	The total release of POC emissions from this S-207 MTBE project shall not exceed 140 pounds in any rolling 24 consecutive hour period. This POC total is defined as the sum of all project-related emissions from: (a) the storage tank; (b) valves, pumps and flanges (fugitive emissions); and (c) the cargo ships and tugs in District waters, assist tugs, tugs during maneuvering and (d) transferring of the MTBE from the cargo carrier to the S-207 Receipt Tank. [Basis: Cumulative Increase]	Y	
10797	4	The S-207 External Roof Storage Tank shall store MTBE and/or mogas only. [Basis: Cumulative Increase, BACT, Offsets, Toxics]	Y	
10797	5	The total throughput of MTBE at S-207 shall not exceed 5,800,000 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
10797	6	The total throughput of mogas at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]	Y	
10797	7	The total daily throughput of MTBE and mogas withdrawn from the S-207 Storage Tank shall be recorded in a District approved log. This record shall be retained for a period of at least two years from date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]	Y	
10797	8	The owner/operator shall maintain daily records (calendar day), in a District approved log, for: (1) the total number of MTBE deliveries by ship and barge (2) ship and tug boat fuel usage (actual or estimated if not logged in) in District waters attributable to the S-207 project only, (3) type of fuel, (4) hours of ship operation in District waters attributable to the S-207 project only, (5) size capacity of ship and barge in DWEIGHT. In addition, the daily throughput of MTBE transferred at the refinery dock from the cargo ship or barge to S-207 shall be recorded in a District approved log. All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to the District on request. If a cargo carrier for this S-207 project calls on multiple ports, such as in Martinez, Permit Holder will be charged for all round trip emissions from the port to the existing refinery dock in Benicia and back to port. For the purposes of record keeping, Permit Holder need to maintain records only for the portion of the project chargeable to their operation. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J9**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb External Floating Roof Tank**  
**S-207 (TK-1740)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.1.006	<b>Permit to Operate S-207 (TK-1740) MTBE/Mogas Storage Tank</b>		
10797	9 On the day of MTBE delivery at the refinery and each day of MTBE transfer from the cargo carrier to S-207, the owner/operator shall determine, using a District approved calculation procedure, the total POC emissions from this project to verify compliance with Conditions Number 2. These daily totals shall be entered into the log and shall be summarized monthly. A Quarterly summary report shall be submitted to the District by the 10th day of the month following the close of the quarter. All records shall be retained for at least two years from date of entry. This log shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]	Y	

**Table IV - J10**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank without Secondary Seal**  
**S-112 (TK-1805)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	

## IV. Source Specific Applicable Requirements

8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-321.4	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-328	Tank degassing requirements	Y	

## IV. Source Specific Applicable Requirements

8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

**Table IV - J10**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank without Secondary Seal**  
**S-112 (TK-1805)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NESHAPS Title 40 Part 63 Subpart G SOCMI HON G (01/27/1995)</b>			
40 CFR 63.119(a)	Storage Vessel Provisions -- Reference Control Technology	Y	
40 CFR 63.119(a)(1)	Storage Vessel Provisions -- Reference Control Technology--Group 1, TVP < 76.6 kPa	Y	
40 CFR 63.119(b)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof	Y	
40 CFR 63.119(b)(1)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof--(roof must float on liquid)	Y	
40 CFR 63.119(b)(1)(i)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(1)(ii)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(1)(iii)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof; floating exception	Y	
40 CFR 63.119(b)(2)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof; operations when not floating	Y	

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40 CFR 63.119(b)(3)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof seals	Y
40 CFR 63.119(b)(3)(i)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof; liquid mounted primary seal option	Y
40 CFR 63.119(b)(3)(ii)	Storage Vessel Provisions . Reference Control Technology--Internal	Y

**Table IV - J10**

### Source-Specific Applicable Requirements

#### Internal Floating Roof Tank without Secondary Seal S-112 (TK-1805)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
	floating roof metallic shoe primary seal option		
40 CFR 63.119(b)(4)	Storage Vessel Provisions . Reference Control Technology--Internal floating roof automatic bleeder vents	Y	
40 CFR 63.120(a)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal floating roof (FR)	Y	
40 CFR 63.120(a)(1)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR inspections	Y	
40 CFR 63.120(a)(2)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal inspections	Y	
40 CFR 63.120(a)(2)(i)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal annual visual inspection	Y	
40 CFR 63.120(a)(2)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR single seal visual inspection [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e).]	Y	
40 CFR 63.120(a)(3)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal inspection	Y	
40 CFR 63.120(a)(3)(ii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal annual visual inspection	Y	
40 CFR 63.120(a)(3)(iii)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR double seal visual inspection [does not apply to gaskets slotted membranes, or sleeve seals for Group 1 Refinery MACT per 40 CFR 63.646(e).]	Y	
40 CFR 63.120(a)(4)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR repair of defects identified during annual visual inspection	Y	
40 CFR 63.120(a)(5)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR inspections 30 day notification	Y	
40 CFR 63.120(a)(6)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR Notification for unplanned inspections	Y	
40 CFR 63.120(a)(7)	Storage Vessel Provisions . Procedures to Determine Compliance--Internal FR--Repairs of defects identified in the 5 yr/10 yr inspections [does not apply to gaskets, slotted membranes, or sleeve seal for Group 1 MACT tanks per 40 CFR 63.646(e)]	Y	
40 CFR 63.123(a)	Storage Vessel Provisions . Recordkeeping--Group 1 and Group 2	Y	
40 CFR 63.123(c)	Storage Vessel Provisions . Recordkeeping--Group 1 Internal floating roof	Y	
40 CFR 63.123(g)	Storage Vessel Provisions -- Recordkeeping, Extensions	Y	

**NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)**  
**Subpart CC**



## IV. Source Specific Applicable Requirements

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.646(a)	Storage Vessel Provisions--Group 1	Y
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y
40 CFR 63.646(c)	Storage Vessel Provisions--40 CFR 63 exclusions for storage vessels	Y
40 CFR 63.646(d)(2)	Storage Vessel Provisions--References to April 22,1994	Y
40 CFR 63.646(d)(3)	Storage Vessel Provisions--References to December 31, 1992	Y
40 CFR 63.646(d)(4)	Storage Vessel Provisions--References to compliance dates in 63.100 of Subpart F	Y

**Table IV - J10**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank without Secondary Seal**  
**S-112 (TK-1805)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 63.646(e)	Storage Vessel Provisions--Compliance with inspection requirements of 63.120 of Subpart G	Y	
40 CFR 63.646(f)	Storage Vessel Provisions--Group floating roof requirements	Y	
40 CFR 63.646(f)(1)	Storage Vessel Provisions--Group floating roof requirements--Cover or lid	Y	
40 CFR 63.646(f)(2)	Storage Vessel Provisions--Group floating roof requirements--Rim space	Y	
40 CFR 63.646(f)(3)	Storage Vessel Provisions--Group floating roof requirements--Automatic bleeder vents	Y	
40 CFR 63.646(l)	Storage Vessel Provisions--State or local permitting agency notification requirements..	Y	
40 CFR 63.654(f)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements	Y	
40 CFR 63.654(f)(1)(i)(A)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(f)(1)(i)(A)(1)	Reporting and Recordkeeping Requirements--Notice of compliance status report requirements--Reporting--storage vessels	Y	
40 CFR 63.654(g)(1)	Periodic Reporting and Recordkeeping Requirements--storage vessels	Y	
40 CFR 63.654(g)(2)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(i)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(i)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(i)(C)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(ii)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(g)(2)(ii)(B)	Periodic Reporting and Recordkeeping Requirements--storage vessels with internal floating roofs	Y	
40 CFR 63.654(h)(2)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	
40 CFR 63.654(h)(2)(i)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y	

#### IV. Source Specific Applicable Requirements

40 CFR 63.654(h)(2)(i)(A)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y
40 CFR 63.654(h)(2)(i)(B)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y
40 CFR 63.654(h)(2)(i)(C)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y
40 CFR 63.654(h)(2)(ii)	Reporting and Recordkeeping Requirements--Other reports--Storage vessel notification of inspections.	Y
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y

## IV. Source Specific Applicable Requirements

**Table IV - J11**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank with Secondary Seal and Solid Guide Poles; MACT Exempt**  
**S-87 (TK-1759)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993	Y	
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993; Liquid mounted primary seal	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	

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8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

### Table IV - J11 Source-Specific Applicable Requirements Internal Floating Roof Tank without Secondary Seal; MACT Exempt S-87 (TK-1759)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
NESHAPS Title 40 Part 63 Subpart CC	NESHAPS for Petroleum Refineries (06/12/1996)		
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

### Table IV - J12 Source-Specific Applicable Requirements Internal Floating Roof Tanks with Secondary Seals; MACT Exempt S-88, S-89, S-90, S-91 (TK-1760, TK-1761, TK-1762, TK-1763)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
BAAQMD · Regulation 8 · Rule 5	Organic Compounds, Storage of Organic Liquids (11/27/02)		
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day	Y	

#### IV. Source Specific Applicable Requirements

	prior notification		
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.5	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.5.1	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--projection below liquid surface	Y	
8-5-320.5.2	Tank Fitting Requirements; Floating roof tanks, Slotted sampling or gauging well requirements--cover, gasket, pole sleeve, pole wiper	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary Seal Requirements; Resilient-toroid-type seal requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	

## IV. Source Specific Applicable Requirements

8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

**Table IV - J12**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tanks with Secondary Seals; MACT Exempt**  
**S-88, S-89, S-90, S-91 (TK-1760, TK-1761, TK-1762, TK-1763)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J13**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Internal Floating Roof Tank**  
**S-210 (TK-1820)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5 Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals,	Y	



## IV. Source Specific Applicable Requirements

	lids		
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J13**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Internal Floating Roof Tank**  
**S-210 (TK-1820)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NSPS Title 40 Part 60 Subpart Kb</b>	<b>NSPS Subpart Kb for Tanks (08/11/1989)</b>		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
40 CFR 60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
40 CFR 60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y	
40 CFR 60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y	
40 CFR 60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y	
40 CFR 60.112b(a)(1)(ii)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	Y	
40 CFR 60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y	
40 CFR 60.112b(a)(1)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals option	Y	
40 CFR 60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y	
40 CFR 60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y	
40 CFR 60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y	
40 CFR 60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y	
40 CFR 60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
40 CFR 60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
40 CFR 60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
40 CFR 60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
40 CFR 60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
40 CFR 60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J13**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Internal Floating Roof Tank**  
**S-210 (TK-1820)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
40 CFR 60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
40 CFR 60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
40 CFR 60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
40 CFR 60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
40 CFR 60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8).	Y	
40 CFR 63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(ii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iii)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(iv)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
40 CFR 63.640(n)(8)(v)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y	
8.2.007	<b>Permit to Operate 210MTBE Process Unit</b>		
9296	C1	For the S-210 Methanol/ethanol Tank: The total throughput of product from S-210 shall not exceed 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y

## IV. Source Specific Applicable Requirements

9296	C2	Total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, shall not exceed 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]	Y
9296	C5	The S-210 internal floating roof tank shall only store methanol/ethanol unless written authorization is received from the APCO allowing the use of another product in advance of any use of such product. [Basis: Cumulative Increase, Offsets, Toxics]	Y
9296	C6	The total monthly throughput of methanol/ethanol withdrawn from the S-210 Storage Tank Shall be recorded in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. It shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]	Y

**Table IV - J14**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Vapor Recovery to Fuel Gas**  
**S-55 (TK-2801)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7	Y	

## IV. Source Specific Applicable Requirements

	days		
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
	Inspection Requirements for External Floating Roof Tanks	Y	
	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y

## IV. Source Specific Applicable Requirements

**Table IV - J15**  
**Source-Specific Applicable Requirements**  
**Exempt Fixed Roof Tanks with Vapor Recovery to Fuel Gas**  
**S-65, S-69, S-70, S-71 (TK-1713, TK-1717, TK-1718, TK-1719)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5    Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>NESHAPS Title 40 Part 63    NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y	

**Table IV - J16**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Vapor Recovery to Fuel Gas**  
**S-124 (TK-1735)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5    Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	

## IV. Source Specific Applicable Requirements

8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y

## IV. Source Specific Applicable Requirements

**Table IV - J17**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Vapor Recovery to Fuel Gas; with Permit Conditions**  
**S-133 (TK-2712)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	



#### IV. Source Specific Applicable Requirements

8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

**NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)**  
**Subpart CC**

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y
8.2.006	<b>Permit to Operate S-133 (TK-2712) Spent Acid Storage Tank</b>	
7559	1 The VOC emissions emitted from the spent acid tank (S- 133) shall be routed to the flare gas recovery header (S-9). [Basis: Cumulative Increase]	Y

## IV. Source Specific Applicable Requirements

**Table IV - J18**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas**  
**S-227 (TK-1741)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	

## IV. Source Specific Applicable Requirements

8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y
40 CFR 60.112b(b)	Standard for Volatile Organic Compounds (VOC); Requirements for tanks >= 75 cu m and maximum TVP >= 76.6 kPa	Y
40 CFR 60.112b(b)(1)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device option	Y
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y
40 CFR 60.116b(e)(2)(i)	Monitoring of Operations; Determine TVP -crude oil or refined petroleum products by API method	Y
40 CFR 60.116b(e)(2)(ii)	Monitoring of Operations; Determine TVP -crude oil or refined petroleum products other than API method	Y
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y

### NESHAPS Title 40 Part 63 Subpart CC

### NESHAPS for Petroleum Refineries (06/12/1996)

## IV. Source Specific Applicable Requirements

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y

8.2.008

### Permit to Operate Clean Fuels Project

#### Table IV - J18

#### Source-Specific Applicable Requirements

#### NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas S-227 (TK-1741)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
10574	1	Any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) shall be equipped with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics] a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure. b) equipped with a "canned" pump. c) equipped with a magnetically driven pump.	Y	
10574	2	Deleted.		
10574	3	Deleted.		
10574	4	All hydrocarbon flow control valves installed as part of the Clean Fuels Project shall be equipped with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]	Y	
10574	5	Except as required by Condition number 4, all other hydrocarbon valves greater than 2 inches installed as part of the CFP shall be one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic- packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]	Y	
	6	Deleted.		
10574	7	All flanges installed in the piping systems as a result of the CFP shall be equipped with graphitic- based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [Basis: BACT, Offsets, Cumulative Increase, Toxics]	Y	
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	8	All new hydrocarbon centrifugal compressors installed as part of the CFP shall be equipped with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All reciprocating compressors installed in hydrocarbon service as part of the CFP shall be vented to a control device having at least a 95%; control efficiency. Deleted. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR 60, Subpart GGG. [BACT, Offsets, Cumulative Increase, Toxics, NSPS]	Y	
10574	10	The pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service shall be vented to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This	Y	

## IV. Source Specific Applicable Requirements

		condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]	
10574	11	All process drains installed as part of the CFP shall be fitted with a "P", trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]	Y
10574	12	Total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1025, S-220, S-227, S-1007, S-1011,	Y

**Table IV - J18**

### Source-Specific Applicable Requirements

#### NSPS Subpart Kb Fixed Roof Tank with Vapor Recovery to Fuel Gas S-227 (TK-1741)

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
		S-1014 and S-151 shall not exceed 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Condition number 9. [Basis: Cumulative Increase]		
8.2.008		<b>Permit to Operate Clean Fuels Project</b>		
10574	42	The S-227 Pentane Storage Tank shall be fixed roof tanks connected to the A-46/A-47 vapor recovery system. NSPS requirements of 40 CFR, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]	Y	
10574	43	Tank S-227 shall have a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]	Y	
10574	44	The Permit Holder shall not store any material in S-227 storage tank, other than the materials specified in this application for the tanks, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a: a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Permit Holder shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]	Y	
10574	45	All POC emissions from tank cleaning, degassing, or product changeout shall be vented to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J19**  
**Source-Specific Applicable Requirements**

**Exempt Fixed Roof Tanks**

**S-93, S-94, S-95, S-96, S-99, S-100, S-106, S-107, S-109, S-111, S-116, S-118,  
S-119, S-140, S-145  
(TK-1772, TK-1773, TK-1774, TK-1775, TK-1778, TK-1779, TK-1797, TK-1798,  
TK-1802, TK-1804, TK-1809, TK-1811, TK-1812, TK-1204, TK-1201)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 5    Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>NESHAPS Title 40 Part 63    NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	40 CFR 63.646(b)(1)
Storage Vessel Provisions--	Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J20**  
**Source-Specific Applicable Requirements**  
**Exempt Fixed Roof Tank; MACT Exempt**  
**S-98 (TK-1777)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Rule 5    Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>NESHAPS Title 40 Part 63    NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.640(e)	Applicability and Designation of Affected Source--Storage vessel source association--Determine if storage vessel is part of a process unit.	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J21**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Submerged Fill & P/V; with Permit Conditions**  
**S-108 (TK-1801)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5      Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of Vapor Recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill		
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	



#### IV. Source Specific Applicable Requirements

8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J21**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Submerged Fill & P/V; with Permit Conditions**  
**S-108 (TK-1801)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y	
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y	
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y	
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y	
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y	
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y	
<b>Applicable Condition</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
8.1.020	<b>Permit to Operate S-108 (TK-1801) Cone Roof Tank</b>		
76003	1 The rate of filling the tank is to be limited to a value such that organic emissions are under 4 lb/hr [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J22**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Submerged Fill & P/V**  
**S-110 (TK-1803)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

## IV. Source Specific Applicable Requirements

8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y
40 CFR 63.646(b)(1)	Storage Vessel Provisions--Determine stored liquid % OHAP for group determination	Y
40 CFR 63.646(b)(2)	Storage Vessel Provisions--Determine stored liquid % OHAP-method 18 to resolve disputes	Y
40 CFR 63.654(h)(6)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y
40 CFR 63.654(h)(6)(ii)	Reporting and Recordkeeping Requirements--Other reports--Determination of Applicability	Y
40 CFR 63.654(i)(1)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y
40 CFR 63.654(i)(1)(i)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y

## IV. Source Specific Applicable Requirements

**Table IV - J23**

### Source-Specific Applicable Requirements

#### Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V

**S-113, S-114, S-115, S-117, S-120, S-122, S-123, S-171, S-180, S-234, S-235 (TK-1806, TK-1807, TK-1808, TK-1810, TK-1813, TK-1814, TK-1794, NO TAG, NO TAG, NO TAG, NO TAG)**

Applicable	Regulation Title or	Federally Enforceable	Future Effective
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	

## IV. Source Specific Applicable Requirements

8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

**Table IV - J24**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions**  
**S-143 (TK-1034)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	

## IV. Source Specific Applicable Requirements

8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

8.2.041

### Permit to Operate S-143 (TK-1034) Corrosion Inhibitor Tank

13045	1	The throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) shall not exceed 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y
13045	2	To demonstrate compliance with Condition #1, the throughput of corrosion inhibitor at S-143 shall be recorded monthly in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]	Y

**Table IV - J25**

### Source-Specific Applicable Requirements

#### Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions S-170 (TK-2317)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD • Regulation 8 • Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice	Y	

## IV. Source Specific Applicable Requirements

	to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.2	Requirements for Submerged Fill Pipes; Side fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

8.1.032

### Permit to Operate S-170 (TK-2317) Polymer Storage Tank

896	2	Emissions of NMHC from S-170 (5000 gallon polymer storage tank) shall not exceed 1 lb/day averaged over 30-day period. [Basis: Cumulative Increase]	Y
896	3	Permit Holder shall maintain records of all tank S-170 loadings including date, type and amount of material loaded. These records shall be maintained for at least five years and be available to the District upon request. [Basis: Cumulative Increase]	Y



## IV. Source Specific Applicable Requirements

**Table IV - J26**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions**  
**S-239 (TK-1918)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	

## IV. Source Specific Applicable Requirements

8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

8.3.067

### Permit to Operate for S-239

18422	1	Total liquid throughput at source S-239 shall not exceed 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)	Y
18422	2	S-239 shall be equipped with a submerged fill pipe. (Basis: Regulation 8-5-301)	Y
18422	3	In order to demonstrate compliance with the condition 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)	Y

**Table IV - J27**

### Source-Specific Applicable Requirements

#### Fixed Roof Tank < 10 Kgals with Submerged Fill & P/V; with Permit Conditions S-158 (TK-2902)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD • Regulation 8 • Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	

## IV. Source Specific Applicable Requirements

8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-302	Requirements for Submerged Fill Pipes	Y	
8-5-302.1	Requirements for Submerged Fill Pipes; Top fill	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

8.1.016

### Permit to Operate S-158 (TK-2902) Perchloroethylene Storage Tank

9584	1	The throughput at the storage tank S-158 shall not exceed 10,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y
9584	2	To demonstrate compliance with Condition #1, monthly throughput record of perchloroethylene at S-158 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: cumulative increase]	Y

## IV. Source Specific Applicable Requirements

**Table IV - J28**  
**Source-Specific Applicable Requirements**  
**Storage Drum with 10 Kgal Capacity**  
**S-1013 (D-2720)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

## IV. Source Specific Applicable Requirements

8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

**Table IV - J29**  
**Source-Specific Applicable Requirements**  
**Exempt Fixed Roof Tanks < 10 Kgals**  
**S-121, S-142, S-144, S-185 (D-807, TK-103, TK-5013, NO TAG)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD • Regulation 8 • Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

**Table IV - J30**  
**Source-Specific Applicable Requirements**  
**Exempt Fixed Roof Tank with NSPS Subpart Kb Recordkeeping**  
**S-230 (TK-4460)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD • Regulation 8 • Rule 5</b>	<b>Organic Compounds, Storage of Organic Liquids (11/27/02)</b>		
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	
<b>NSPS Title 40 Part 60 Subpart Kb</b>	<b>NSPS Subpart Kb for Tanks (08/11/1989)</b>		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic	Y	

## IV. Source Specific Applicable Requirements

40 CFR 60.110b(c)	liquid storage vessels > or = to 40 cu m, after 7/23/1984 Applicability and Designation of Affected Facility; Exemptions for storage vessels > or = to 75 cu m	Y
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y

### **NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC**

40 CFR 63.640(c)(2)	Applicability and Designation of Storage Vessels	Y
40 CFR 63.640(n)(1)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Existing Group 1 or Group 2 also subject to Kb only subject to Kb and 63.640(n)(8).	Y
40 CFR 63.640(n)(8)	Applicability and Designation of Affected Source Overlap for Storage Vessels--Additional requirements for Kb storage vessels	Y
40 CFR 63.641	Definitions: (arranged alphabetically) Group 1 wastewater stream, Group 2 wastewater stream, miscellaneous process vents (specifically does not include emissions from wastewater collection and conveyance systems).	Y
40 CFR 63.654(i)(1)(iv)	Reporting and Recordkeeping Requirements--Recordkeeping for storage vessels	Y

### **Table IV - J31.1 Source-Specific Applicable Requirements Exempt Fixed Roof Caustic Tanks S-132, S-134 (TK-2711, TK-2713)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02) Rule 5</b>			
8-5-117	Exemption, Low Vapor Pressure	Y	
8-5-501	Records	Y	
8-5-501.1	Type and amount of liquid, true vapor pressure, retain 24 months	Y	

### **Table IV - J31.2 Source-Specific Applicable Requirements Exempt Non-Organic Tanks S-231, S-236 (TK-1943, TK-1901)**

**Federally Future**

## IV. Source Specific Applicable Requirements

Applicable Requirement	Regulation Title or Description of	Enforceable (Y/N)	Effective Date
<b>BAAQMD · Regulation 6</b>	<b>Particulate Matter and Visible Emissions (12/19/1990)</b>		
6-301	Ringelmann No. 1 Limitation	Y	
6-310	Particulate Weight Limitation	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J32**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank - Benzene Wastewater**  
**S-85 (TK-1757)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	



## IV. Source Specific Applicable Requirements

8-5-320.2	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary Seal Requirements; Metallic-shoe-type seal requirements	Y	
8-5-321.3.1	Primary Seal Requirements; Metallic-shoe-type seal requirements-- geometry of shoe	Y	
8-5-321.3.2	Primary Seal Requirements; Metallic-shoe-type seal requirements-- welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded external floating roof tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J32**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tank - Benzene Wastewater**  
**S-85 (TK-1757)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
<b>NSPS Title 40 Part 60 Subpart Kb</b>	<b>NSPS Subpart Kb for Tanks (08/11/1989)</b>		
40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y	
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y	
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y	
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y	
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y	
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y	
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y	
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y	
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y	
40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y	
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y	
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y	
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y	
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y	
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y	
40 CFR 60.113b(b)(4)(i)(A)	Testing and Procedures; External floating roof mechanical shoe primary seal requirements	Y	
40 CFR 60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y	
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y	
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	

## IV. Source Specific Applicable Requirements

40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y

**Table IV - J32**

### Source-Specific Applicable Requirements

#### External Floating Roof Tank - Benzene Wastewater

#### S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	

## IV. Source Specific Applicable Requirements

40 CFR 60.116b(f)(2)(iii) Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method Y

**NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993)  
Subpart FF**

40 CFR 61.343(a) Standards: Tanks; Benzene-containing wastes Y  
40 CFR 61.351(a)(2) Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR 60.112b(a)(2) Y

### Table IV - J32

#### Source-Specific Applicable Requirements

#### External Floating Roof Tank - Benzene Wastewater

#### S-85 (TK-1757)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	

**NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)  
Subpart CC**

40 CFR 63.640(c)(3) Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a) Y  
40 CFR 63.647(a) Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641. Y  
40 CFR 63.654(a) Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.

### Table IV - J33

#### Source-Specific Applicable Requirements

#### External Floating Roof Tanks - Benzene Wastewater

#### S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
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**BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)  
Rule 5**

8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	

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	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-304	Requirements for External Floating Roofs	Y	
8-5-304.1	Requirements for External Floating Roofs; Tank fitting requirements	Y	
8-5-304.2	Requirements for External Floating Roofs; Primary seal requirements	Y	
8-5-304.3	Requirements for External Floating Roofs; Secondary seal requirements	Y	
8-5-304.4	Requirements for External Floating Roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements – Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Projection below surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids –	Y	
8-5-320.3.1	Tank fitting requirements – Floating roof tanks, Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.4	Tank Fitting Requirements; Solid sampling or gauging well requirements in floating roof tanks	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid	Y	

## IV. Source Specific Applicable Requirements

	mounted except as provided in 8-5-305.1.3		
8-5-321.4	Primary seal requirements; Resilient toroid type seals requirements	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gap for welded tanks with seal installed after September 4, 1985	Y	
8-5-322.6	Secondary seal requirements; extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-401	Inspection Requirements for External Floating Roof Tanks	Y	
8-5-401.1	Inspection Requirements for External Floating Roof Tanks; Primary and Secondary Seal Inspections	Y	
8-5-401.2	Inspection Requirements for External Floating Roof Tanks; Tank Fittings Inspections	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.112b(a)(2)	Standard for Volatile Organic Compounds (VOC); External floating roof option	Y
40 CFR 60.112b(a)(2)(i)	Standard for Volatile Organic Compounds (VOC); External floating roof seal requirements	Y
40 CFR 60.112b(a)(2)(i)(A)	Standard for Volatile Organic Compounds (VOC); External floating roof primary seal requirements	Y
40 CFR 60.112b(a)(2)(i)(B)	Standard for Volatile Organic Compounds (VOC); External floating roof secondary seal requirements	Y
40 CFR 60.112b(a)(2)(ii)	Standard for Volatile Organic Compounds (VOC); External floating roof openings requirements	Y
40 CFR 60.112b(a)(2)(iii)	Standard for Volatile Organic Compounds (VOC); External floating roof floating requirements	Y
40 CFR 60.113b(b)(1)	Testing and Procedures; External floating roof seal gap measurement frequency	Y
40 CFR 60.113b(b)(1)(i)	Testing and Procedures; External floating roof primary seal gaps measurement frequency	Y
40 CFR 60.113b(b)(1)(ii)	Testing and Procedures; External floating roof secondary seal gaps measurement frequency	Y
40 CFR 60.113b(b)(1)(iii)	Testing and Procedures; External floating roof reintroduction of VOL	Y
40 CFR 60.113b(b)(2)	Testing and Procedures; External floating roof seal gap measurement procedures	Y

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40 CFR 60.113b(b)(2)(i)	Testing and Procedures; External floating roof measure seal gaps when roof is floating	Y
40 CFR 60.113b(b)(2)(ii)	Testing and Procedures; External floating roof measure seal gaps around entire circumference	Y
40 CFR 60.113b(b)(2)(iii)	Testing and Procedures; External floating roof seal method to determine surface area of seal gaps	Y
40 CFR 60.113b(b)(3)	Testing and Procedures; External floating roof method to calculate total surface area ratio	Y
40 CFR 60.113b(b)(4)	Testing and Procedures; External floating roof seal gap repair requirements	Y
40 CFR 60.113b(b)(4)(i)	Testing and Procedures; External floating roof primary seal gap limitations	Y
40 CFR 60.113b(b)(4)(i)(B)	Testing and Procedures; External floating roof primary seals no holes, tears, openings	Y
40 CFR 60.113b(b)(4)(ii)(A)	Testing and Procedures; External floating roof secondary seal installation	Y
40 CFR 60.113b(b)(4)(ii)(B)	Testing and Procedures; External floating roof secondary seal gap	Y

## IV. Source Specific Applicable Requirements

**Table IV - J33**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks - Benzene Wastewater**  
**S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.113b(b)(4)(ii)(C)	Testing and Procedures; External floating roof secondary seals no holes, tears, openings	Y	
40 CFR 60.113b(b)(4)(iii)	Testing and Procedures; External floating roof 30-day extension request for seal gap repairs	Y	
40 CFR 60.113b(b)(5)	Testing and Procedures; External floating roof seal gap inspections 30 day notification	Y	
40 CFR 60.113b(b)(6)	Testing and Procedures; External floating roof visual inspection when emptied and degassed	Y	
40 CFR 60.113b(b)(6)(i)	Testing and Procedures; External floating roof--roof or seal defect repairs	Y	
40 CFR 60.113b(b)(6)(ii)	Testing and Procedures; External floating roof notification prior to filling	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(b)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating	Y	
40 CFR 60.115b(b)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof control equipment description and certification	Y	
40 CFR 60.115b(b)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report	Y	
40 CFR 60.115b(b)(2)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--date of measurement	Y	
40 CFR 60.115b(b)(2)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--raw data	Y	
40 CFR 60.115b(b)(2)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement report--calculations	Y	
40 CFR 60.115b(b)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records	Y	
40 CFR 60.115b(b)(3)(i)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--date of measurement	Y	
40 CFR 60.115b(b)(3)(ii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--raw data	Y	
40 CFR 60.115b(b)(3)(iii)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap measurement records--calculations	Y	
40 CFR 60.115b(b)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) external floating roof seal gap exceedance report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	



#### **IV. Source Specific Applicable Requirements**

40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y

## IV. Source Specific Applicable Requirements

**Table IV - J33**  
**Source-Specific Applicable Requirements**  
**External Floating Roof Tanks - Benzene Wastewater**  
**S-67, S-81, S-104 (TK-1715, TK-1753, TK-1795)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993)</b> <b>Subpart FF</b>			
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.351(a)(2)	Alternative Standards for Tanks; External floating roof meeting requirements of 40 CFR 60.112b(a)(2)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b> <b>Subpart CC</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

**Table IV - J34**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tanks with Double Seals - Benzene Wastewater**  
**S-101, S-105 (TK-1791, TK-1796)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b> <b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service;	Y	

## IV. Source Specific Applicable Requirements

	Notice to the APCO; Telephone notification		
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.2	Requirements for Internal Floating roofs; Seals installed after 2/1/1993	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	
8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	

## IV. Source Specific Applicable Requirements

8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-322	Secondary seal requirements	Y	
8-5-322.1	Secondary seal requirements; No holes, tears, or other openings	Y	
8-5-322.2	Secondary seal requirements; Insertion of probes	Y	
8-5-322.5	Secondary seal requirements; Gaps for welded tanks with seals installed after 2/1/93 – note 2	Y	
8-5-322.6	Secondary seal requirements; Extent of seal	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y
40 CFR 60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y
40 CFR 60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y
40 CFR 60.112b(a)(1)(ii)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	Y
40 CFR 60.112b(a)(1)(ii)(B)	Standard for Volatile Organic Compounds (VOC); Internal floating roof double seal option	Y
40 CFR 60.112b(a)(1)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals option	Y
40 CFR 60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y

#### **IV. Source Specific Applicable Requirements**

40 CFR 60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y
40 CFR 60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y
40 CFR 60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y

## IV. Source Specific Applicable Requirements

**Table IV - J34**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tanks with Double Seals - Benzene Wastewater**  
**S-101, S-105 (TK-1791, TK-1796)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y	
40 CFR 60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y	
40 CFR 60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y	
40 CFR 60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y	
40 CFR 60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
40 CFR 60.113b(a)(3)(ii)	Testing and Procedures; Internal floating roof with double seal system, annual inspection	Y	
40 CFR 60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
40 CFR 60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
40 CFR 60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
40 CFR 60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
40 CFR 60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
40 CFR 60.115b(a)(4)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof double seal system inspection defects report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J34**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tanks with Double Seals - Benzene Wastewater**  
**S-101, S-105 (TK-1791, TK-1796)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 61 Subpart FF NESHAPS, Benzene Waste Operations (01/07/1993)</b>			
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 40 CFR 60.112b(a)(1)	Y	
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y	
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y	
<b>NESHAPS Title 40 Part 63 Subpart CC NESHAPS for Petroleum Refineries (06/12/1996)</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

**Table IV - J35**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater**  
**S-103 (TK-1793)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5 Organic Compounds, Storage of Organic Liquids (11/21/03)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service;	Y	

#### IV. Source Specific Applicable Requirements

	Compliance before notification		
8-5-111.3	Limited Exemption, Tank Removal From and Return to Service; Floating roof tanks - continuous and quick filling, emptying and refilling	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-305	Requirements for Internal Floating roofs	Y	
8-5-305.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993	Y	
8-5-305.1.1	Requirements for Internal Floating roofs; Seals installed on or before 2/1/1993; Liquid mounted primary seal	Y	
8-5-305.3	Requirements for Internal Floating roofs; Viewports in fixed roof tank; not required if dome roof has translucent panels	Y	
8-5-305.4	Requirements for Internal Floating roofs; Tank fitting requirements	Y	
8-5-305.5	Requirements for Internal Floating roofs; Floating roof requirements	Y	
8-5-320	Tank fitting requirements; Floating roof tanks	Y	
8-5-320.2	Tank fitting requirements; Floating roof tanks; Projection below liquid surface except p/v valves and vacuum breaker vents	Y	
8-5-320.3	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids	Y	
8-5-320.3.1	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Gap requirements	Y	
8-5-320.3.2	Tank fitting requirements; Floating roof tanks; Gasketed covers, seals, lids – Inaccessible openings on internal floating roof tanks	Y	
8-5-320.4	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells	Y	
8-5-320.4.1	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Projection below the liquid surface	Y	
8-5-320.4.2	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Cover, seal, or lid	Y	
8-5-320.4.3	Tank fitting requirements; Floating roof tanks; Solid sampling or gauging wells; Gap between the well and the roof	Y	
8-5-321	Primary seal requirements	Y	



## IV. Source Specific Applicable Requirements

8-5-321.1	Primary seal requirements; No holes, tears, or other openings	Y	
8-5-321.2	Primary seal requirements; The seal shall be metallic shoe or liquid mounted except as provided in 8-5-305.1.3	Y	
8-5-321.3	Primary seal requirements; Metallic shoe type seals requirements	Y	
8-5-321.3.1	Primary seal requirements; Metallic shoe type seals requirements; Geometry of shoe	Y	
8-5-321.3.2	Primary seal requirements; Metallic shoe type seals requirements; Gaps for welded tanks	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-402	Inspection Requirements for Internal Floating Roof Tanks	Y	
8-5-402.1	Inspection Requirements for Internal Floating Roof Tanks; Primary and Secondary Seal Inspections – Seal gaps	Y	
8-5-402.2	Inspection Requirements for Internal Floating Roof Tanks; Visual Inspection of Outer Most Seal	Y	
8-5-402.3	Inspection Requirements for Internal Floating Roof Tanks; Tank Fitting Inspection	Y	
8-5-404	Certification	Y	
8-5-405	Information required	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-604	Determination of Applicability	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.112b(a)(1)	Standard for Volatile Organic Compounds (VOC); Fixed roof with internal floating roof option	Y
40 CFR 60.112b(a)(1)(i)	Standard for Volatile Organic Compounds (VOC); Internal floating roof requirements	Y
40 CFR 60.112b(a)(1)(ii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof seal requirements	Y
40 CFR 60.112b(a)(1)(ii)(A)	Standard for Volatile Organic Compounds (VOC); Internal floating roof foam or liquid filled seals option.	Y
40 CFR 60.112b(a)(1)(ii)(C)	Standard for Volatile Organic Compounds (VOC); Internal floating roof mechanical shoe seals option	Y
40 CFR 60.112b(a)(1)(iii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings-projections below roof surface	Y
40 CFR 60.112b(a)(1)(iv)	Standard for Volatile Organic Compounds (VOC); Internal floating roof openings covers	Y
40 CFR 60.112b(a)(1)(ix)	Standard for Volatile Organic Compounds (VOC); Internal floating roof ladder penetrations	Y
40 CFR 60.112b(a)(1)(v)	Standard for Volatile Organic Compounds (VOC); Internal floating roof automatic bleeder vents	Y

## IV. Source Specific Applicable Requirements

40 CFR 60.112b(a)(1)(vi)	Standard for Volatile Organic Compounds (VOC); Internal floating roof rim space vents	Y
40 CFR 60.112b(a)(1)(vii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof sampling penetrations	Y
40 CFR 60.112b(a)(1)(viii)	Standard for Volatile Organic Compounds (VOC); Internal floating roof support column penetrations	Y
40 CFR 60.113b(a)(1)	Testing and Procedures; Internal floating roof visual inspection before	Y

**Table IV - J35**

### Source-Specific Applicable Requirements

#### Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater S-103 (TK-1793)

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.113b(a)(2)	Testing and Procedures; Internal floating roof tanks with liquid mounted or mechanical shoe primary seal, annual inspection	Y	
40 CFR 60.113b(a)(4)	Testing and Procedures; Internal floating roof inspections after emptied and degassed	Y	
40 CFR 60.113b(a)(5)	Testing and Procedures; Internal floating roof, 30 day notification for filling after inspection	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(a)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating	Y	
40 CFR 60.115b(a)(1)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof control equipment description and certification	Y	
40 CFR 60.115b(a)(2)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof inspection records	Y	
40 CFR 60.115b(a)(3)	Reporting and Recordkeeping Requirements; 60.112b(a) internal floating roof annual inspection defects report	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(c)	Monitoring of Operations; VOL storage record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993)</b>			
<b>Subpart FF</b>			
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	

#### **IV. Source Specific Applicable Requirements**

40 CFR 61.351(a)(1)	Alternative Standards for Tanks; Internal floating roof meeting requirements of 40 CFR 60.112b(a)(1)	Y
40 CFR 61.351(b)	Alternative Standards for Tanks; Tanks subject to 61.351 and exempt from 61.343	Y
40 CFR 61.356(k)	Recordkeeping Requirements: 61.351 control equipment must comply with 40 CFR 60.115b	Y

## IV. Source Specific Applicable Requirements

**Table IV - J35**  
**Source-Specific Applicable Requirements**  
**Internal Floating Roof Tank without Secondary Seal - Benzene Wastewater**  
**S-103 (TK-1793)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NESHAPS Title 40 Part 63 Subpart CC NESHAPS for Petroleum Refineries (06/12/1996)</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	

**Table IV - J36**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-131 (D-2069)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Rule 5 Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	

## IV. Source Specific Applicable Requirements

8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF

40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems--No detectable emissions >= 500 ppmv; annual inspection	Y
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control	Y

#### IV. Source Specific Applicable Requirements

	efficiency.	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y
40 CFR 61.349(b)	Operated at all times.	Y
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y

## IV. Source Specific Applicable Requirements

**Table IV - J36**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-131 (D-2069)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996)</b>			
<b>Subpart CC</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
8.3.001	<b>Permit to Operate Waste Water Treatment Plant</b>		
11888	1 The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 9-10)	Y	
11888	2 The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis)	Y	
11888	3 The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11888	4 The minimum oxidation temperature of A-57 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if	Y	

#### **IV. Source Specific Applicable Requirements**

source test data demonstrate that an alternate temperature is necessary for  
or capable of maintaining compliance with Condition #3. (Basis:  
Regulation 2-1-403)



## IV. Source Specific Applicable Requirements

**Table IV - J36**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-131 (D-2069)**

Applicable Requirement		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
11888	5	The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]	Y	
11888	6	This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
11888	7	The minimum temperature requirement of Condition 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year. e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)	Y	
11888	8	No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NOx, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)	Y	
11888	9	This source shall be abated by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal Oxidizer at all times when the source	Y	

#### IV. Source Specific Applicable Requirements

		is in service except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	
11888	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: RACT]	Y

## IV. Source Specific Applicable Requirements

**Table IV - J36**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-131 (D-2069)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
11888	11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby services, A-37 carbon shall be replaced weekly until the continuous VOC monitoring A-37 outlet is operating. [Basis: Cumulative Increase]	Y	
11888	12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. Carbon canister changeout date. d. Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]	Y	
11888	13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor services on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
11888	14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
11888	16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J37**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-150 (TK-2051)**

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	

## IV. Source Specific Applicable Requirements

8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF

40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions $\geq$ 500 ppmv; annual inspection	Y
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y
40 CFR 61.349(b)	Operated at all times.	Y
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y
40 CFR 61.349(h)	Monitor per 61.354(c)	Y
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y
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## IV. Source Specific Applicable Requirements

**Table IV - J37**  
**Source-Specific Applicable Requirements**  
**Fixed Roof Tank with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-150 (TK-2051)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
11879	1 The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
11879	2 The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
11879	3 The VOC destruction efficiency of the A-57 Thermal oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11879	4 The minimum oxidation temperature of A-57 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
11879	5 The A-57 Thermal Oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. (Basis: Temperature Monitoring)	Y	
11879	6 This device shall be accurate to within 20 degrees Fahrenheit (°F) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	
11879	7 The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same	Y	

## IV. Source Specific Applicable Requirements

		24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403) For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month . and total number for the current calendar year. e. All strip charts or other temperature records.(Basis: Regulation 2-1-403)	
11879	8	No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NOx, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)	Y
11879	9	This source shall be abated by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer in at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y
11879	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y
11879	11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -34 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]	Y
11879	12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y
11879	13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve,	Y

#### IV. Source Specific Applicable Requirements

		and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	
11879	14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y
11879	16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y



## IV. Source Specific Applicable Requirements

**Table IV - J38**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-193, S-196 (TK-2027, TK-2077)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.1	Tank degassing requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank degassing requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	

## IV. Source Specific Applicable Requirements

8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y
40 CFR 60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks--> 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP -other liquids-standard reference texts	Y
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP -other liquids-ASTM method	Y
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP -other liquids-other approved measurement method	Y
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP -other liquids-other approved calculation method	Y
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y

#### **IV. Source Specific Applicable Requirements**

40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y

## IV. Source Specific Applicable Requirements

**Table IV - J38**  
**Source-Specific Applicable Requirements**

**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device - S-193, S-196 (TK-2027, TK-2077)**

<b>Applicable Requirement</b>	<b>Regulation Title or Description of</b>	<b>Federally Enforceable (Y/N)</b>	<b>Future Effective Date</b>
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF</b>			
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions $\geq$ 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating	Y	

#### IV. Source Specific Applicable Requirements

40 CFR 63.654(a)	parameter values. Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y
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## IV. Source Specific Applicable Requirements

**Table IV - J38**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-193, S-196 (TK-2027, TK-2077)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.3.001		<b>Permit to Operate Waste Water Treatment Plant</b>		
11880	1	S-193, S-196, S-205 and S-206: This source shall be abated by two 1200 lb (minimum: carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
11880	2	The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
11880	3	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]	Y	
11880	4	To demonstrate compliance with Condition (2), the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. a) Daily NMHC emission rate in pounds per day. b) Daily NMHC emission rate, as averaged over one month, in pounds per day. c) Daily flow rate and outlet NMHC concentration. d) Carbon canister changeout date e) Total volume of gas recorded between carbon canister changeout. [Basis: Cumulative Increase]	Y	
11880	5	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
11880	7	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J39**  
**Source-Specific Applicable Requirements**  
**Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-199, S-200 (D-2055, D-2056)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

## IV. Source Specific Applicable Requirements

8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF

40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions $\geq$ 500 ppmv; annual inspection	Y
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y
40 CFR 61.349(a)(2)(i)(A)	Controlled by enclosed combustion device with greater than 95% control efficiency.	Y
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y
40 CFR 61.349(b)	Operated at all times.	Y
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y
40 CFR 61.349(c)(2)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Performance tests	Y
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y
40 CFR 61.349(h)	Monitor per 61.354(c)	Y
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y
40 CFR 61.354(c)(1)	Monitor thermal vapor incinerator temperature	Y
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y
40 CFR 61.354(f)	Monitoring of Operations; Closed vent system with bypass line	Y
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y



#### **IV. Source Specific Applicable Requirements**

40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y
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## IV. Source Specific Applicable Requirements

**Table IV - J39**  
**Source-Specific Applicable Requirements**  
**Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-199, S-200 (D-2055, D-2056)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
11882	1 S-199 and S-200: The emissions of nitrogen oxides (NOx) shall not exceed 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
11882	2 The emissions of carbon monoxide (CO) shall not exceed 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)	Y	
11882	3 The VOC destruction efficiency of the A-57 Thermal Oxidizer shall be no less than 98.5%, by weight. (Basis: NSPS and NESHAPS)	Y	
11882	4 The minimum oxidation temperature of A-57 shall be at least 1400 degrees Fahrenheit. This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Condition #3. (Basis: Regulation 2-1-403)	Y	
11882	5 The A-57 Thermal oxidizer shall be equipped with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]	Y	
11882	6 This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Condition 4. (Basis: Regulation 1-521)	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J39**  
**Source-Specific Applicable Requirements**  
**Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-199, S-200 (D-2055, D-2056)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
11882	7	The minimum temperature requirement of Condition 4 shall not apply during an ""Allowable Temperature Excursion"" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following: a. A temperature excursion not exceeding 20°F. b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour. c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year. (1) The excursion does not exceed 50°F. (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)For each Allowable Temperature Excursion that exceeds 20°F and 15 minutes in duration, the Permit Holder shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information: a. Thermal oxidizer controller set temperature. b. Starting date and time, and duration of each Allowable Temperature Excursion. c. Minimum temperature during each Allowable Temperature Excursion. d. Number of Allowable Temperature Excursions per month . and total number for the current calendar year. e. All strip charts or other temperature records.(Basis: Regulation 2-1-403)	Y	
11882	8	No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NOx, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NOx, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)	Y	
11882	9	These sources shall be abated by two 700 lb (minimum) carbon canisters (A-37) in series and/or the A-57 Thermal Oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]	Y	
11882	10	The total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
11882	11	NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST -7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average	Y	

#### **IV. Source Specific Applicable Requirements**

known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]

## IV. Source Specific Applicable Requirements

**Table IV - J39**  
**Source-Specific Applicable Requirements**  
**Storage Drums with Closed Vent System & Two Control Devices - Benzene Wastewater**  
**S-199, S-200 (D-2055, D-2056)**

Applicable Condition		Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
11882	12	To demonstrate compliance with Condition 10, the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 24 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase] a. Daily NMHC emission rate in pounds per day. b. Daily NMHC emission rate, as averaged over one month, in pounds per day. c. Daily flow rate and outlet NMHC concentration. d. Carbon canister changeout date. e. Total volume of gas recorded between carbon canister changeout.	Y	
11882	13	The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
11882	14	A flow indicator or equivalent device shall be installed on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]	Y	
11882	16	A monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream shall be used. [Basis: Cumulative Increase]	Y	

**Table IV - J40**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-205, S-206 (TK-2026, TK-2076)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b> <b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice	Y	

## IV. Source Specific Applicable Requirements

	to the APCO; 3 day prior notification		
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank Degassing Requirements	Y	
8-5-328.1	Tank Degassing Requirements; Tanks > 75 cubic meters	Y	
8-5-328.1.2	Tank Degassing Requirements; Tanks > 75 cubic meters; Concentration of <10,000 ppm as methane after degassing	Y	
8-5-328.2	Tank degassing requirements; Ozone excess day prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	
8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	

#### **IV. Source Specific Applicable Requirements**

8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	
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## IV. Source Specific Applicable Requirements

**Table IV - J40**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-205, S-206 (TK-2026, TK-2076)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>NSPS Title 40 Part 60 Subpart Kb</b>	<b>NSPS Subpart Kb for Tanks (08/11/1989)</b>		
40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y	
40 CFR 60.112b(a)	Standard for Volatile Organic Compounds (VOC); Requirement for tanks-- > 151 cu m with maximum TVP >=5.2 kPa and <76.6; or >= 75 cu m and < 151 cu m with maximum TVP >= 27.6 kPa and < 76.6 kPa	Y	
40 CFR 60.112b(a)(3)(i)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device no detectable emissions	Y	
40 CFR 60.112b(a)(3)(ii)	Standard for Volatile Organic Compounds (VOC); Closed vent system and control device >= 95% inlet VOC emission reduction	Y	
40 CFR 60.113b(c)	Testing and Procedures; Closed vent system and control device (not flare)	Y	
40 CFR 60.113b(c)(1)	Testing and Procedures; Closed vent system and control device (not flare) operating plan submission	Y	
40 CFR 60.113b(c)(1)(i)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--efficiency demonstration	Y	
40 CFR 60.113b(c)(1)(ii)	Testing and Procedures; Closed vent system and control device (not flare) operating plan--monitoring parameters	Y	
40 CFR 60.113b(c)(2)	Testing and Procedures; Closed vent system and control device (not flare) operate in accordance with operating plan	Y	
40 CFR 60.115b	Reporting and Recordkeeping Requirements; 60.112b(a) tanks	Y	
40 CFR 60.115b(c)(1)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating plan copy	Y	
40 CFR 60.115b(c)(2)	Reporting and Recordkeeping Requirements; Closed vent system and control device (not flare) operating records	Y	
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y	
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y	
40 CFR 60.116b(e)(3)(i)	Monitoring of Operations; Determine TVP-other liquids-standard reference texts	Y	
40 CFR 60.116b(e)(3)(ii)	Monitoring of Operations; Determine TVP-other liquids-ASTM method	Y	
40 CFR 60.116b(e)(3)(iii)	Monitoring of Operations; Determine TVP-other liquids-other approved measurement method	Y	
40 CFR 60.116b(e)(3)(iv)	Monitoring of Operations; Determine TVP-other liquids-other approved calculation method	Y	
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y	
40 CFR 60.116b(f)(1)	Monitoring of Operations; Waste storage tanks-Determine maximum possible TVP	Y	
40 CFR 60.116b(f)(2)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests	Y	
40 CFR 60.116b(f)(2)(i)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 2879 method	Y	



## IV. Source Specific Applicable Requirements

**Table IV - J40**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-205, S-206 (TK-2026, TK-2076)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 60.116b(f)(2)(ii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests ASTM D 323 method	Y	
40 CFR 60.116b(f)(2)(iii)	Monitoring of Operations; Waste storage tanks-Vapor pressure tests-other approved method	Y	
40 CFR 60.116b(g)	Monitoring of Operations; Exemption from 116b(c) and 116b(d)	Y	
<b>NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF</b>			
40 CFR 61.343(a)	Standards: Tanks; Benzene-containing wastes	Y	
40 CFR 61.343(a)(1)	Standards: Tanks; Fixed Roof--with closed vent system	Y	
40 CFR 61.343(a)(1)(i)(B)	Standards: Tanks; Fixed Roof--No openings	Y	
40 CFR 61.343(a)(1)(ii)	Standards: Tanks; Closed-vent systems are subject to 61.349	Y	
40 CFR 61.349(a)(1)(ii)(B)	Car-sealed valves on bypass lines in closed-vent system	Y	
40 CFR 61.343(c)	Standards: Tanks; Fixed roof quarterly inspection	Y	
40 CFR 61.343(d)	Standards: Tanks; Fixed roof repairs	Y	
40 CFR 61.349(a)	Standards: Closed-Vent Systems and Control Devices; Applicability	Y	
40 CFR 61.349(a)(1)(i)	Standards: Closed-Vent Systems and Control Devices-Closed vent systems---No detectable emissions $\geq$ 500 ppmv; annual inspection	Y	
40 CFR 61.349(a)(1)(iii)	Gauging/sampling devices are gas-tight	Y	
40 CFR 61.349(a)(1)(iv)	Safety valve provisions	Y	
40 CFR 61.349(a)(2)(ii)	Controlled by vapor recovery: 95% VOC or 98% benzene control	Y	
40 CFR 61.349(b)	Operated at all times.	Y	
40 CFR 61.349(c)(1)	Demonstrate efficiency required in 61.349(a)(2)	Y	
40 CFR 61.349(e)	Standards: Closed-Vent Systems and Control Devices; Control Device Performance Demonstration--Administrator-specified methods	Y	
40 CFR 61.349(f)	Visually inspect for leaks quarterly	Y	
40 CFR 61.349(g)	Repair leaks: 5 days for first attempt; 15 days for complete repair	Y	
40 CFR 61.349(h)	Monitor per 61.354(c)	Y	
40 CFR 61.354(c)	Monitoring of Operations; Closed-vent systems and control devices--Continuously monitor control device operation	Y	
40 CFR 61.354(d)	Non-regenerate carbon adsorption system requirements	Y	
40 CFR 61.354(f)(1)	Visually inspect carseal/valve positions monthly	Y	
40 CFR 61.356(e)(4)	Recordkeeping Requirements: Maintain control device records	Y	
<b>NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC</b>			
40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y	
40 CFR 63.640(o)(1)	Overlap: Sources subject to NESHAPS (MACT) Subpart CC and NSPS Subpart QQQ are only required to comply with Subpart CC provisions	Y	

## IV. Source Specific Applicable Requirements

**Table IV - J40**  
**Source-Specific Applicable Requirements**  
**NSPS Subpart Kb Fixed Roof Tank with Closed Vent System & Carbon Control Device -**  
**S-205, S-206 (TK-2026, TK-2076)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
40 CFR 63.647(a)	Comply with 61.340-61.355 (Subpart FF). Owners/operators of Group 1 wastewater streams shall comply with sections 61.340 to 61.355 of 40 CFR part 61, subpart FF for each stream that meets the definition of 63.641.	Y	
40 CFR 63.647(c)	Owners/operators required under subpart FF of 40 CFR part 61 to perform periodic measurement of benzene concentration in wastewater, etc., shall operate consistently with the permitted concentration or operating parameter values.	Y	
40 CFR 63.654(a)	Owner/operators subject to the wastewater provisions of 63.647 shall comply with the recordkeeping and reporting requirements in 61.356 and 61.357 of 40 CFR part 61, subpart FF, unless they comply with those specified in paragraph (o)(2)(ii) of 63.640.	Y	
For S-193, S-196, S-205 and S-206:			
11880	1 This source shall be abated by two 1200 lb (minimum: carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]	Y	
11880	2 The combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 shall not exceed 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]	Y	
11880	3 NMHC shall be determined from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]	Y	
11880	4 To demonstrate compliance with Condition (2), the following records shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase] a) Daily NMHC emission rate in pounds per day. b) Daily NMHC emission rate, as averaged over one month, in pounds per day. c) Daily flow rate and outlet NMHC concentration. d) Carbon canister changeout date e) Total volume of gas recorded between carbon canister changeout.	Y	
11880	5 The operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]	Y	
11880	7 A monitoring device that continuously indicates and records the VOC	Y	

#### **IV. Source Specific Applicable Requirements**

concentration level or reading of organics in the exhaust gases of this  
abatement device outlet gas stream or inlet and outlet gas stream shall be used.  
[Basis: Cumulative Increase]

## IV. Source Specific Applicable Requirements

**Table IV - J41**  
**Source-Specific Applicable Requirements**  
**Coker Sludge Drum with Vapor Recovery Routed to Fuel Gas**  
**S-208 (D-920)**

Applicable Requirement	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
<b>BAAQMD · Regulation 8 · Organic Compounds, Storage of Organic Liquids (11/27/02)</b>			
<b>Rule 5</b>			
8-5-111	Limited Exemption, Tank Removal From and Return to Service	Y	
8-5-111.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO	Y	
8-5-111.1.1	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; 3 day prior notification	Y	
8-5-111.1.2	Limited Exemption, Tank Removal From and Return to Service; Notice to the APCO; Telephone notification	Y	
8-5-111.2	Limited Exemption, Tank Removal From and Return to Service; Compliance before notification	Y	
8-5-111.4	Limited Exemption, Tank Removal From and Return to Service; Use of vapor recovery	Y	
8-5-111.5	Limited Exemption, Tank Removal From and Return to Service; Minimization of emissions	Y	
8-5-111.6	Limited Exemption, Tank Removal From and Return to Service; Written notice of completion not required	Y	
8-5-111.7	Limited Exemption, Tank Removal From and Return to Service; Compliance with Section 8-5-328	Y	
8-5-112	Limited Exemption, Tanks in Operation	Y	
8-5-112.1	Limited Exemption, Tanks in Operation; Notice to the APCO	Y	
8-5-112.1.1	Limited Exemption, Tanks in Operation; Notice to the APCO; 3 day prior notification	Y	
8-5-112.1.2	Limited Exemption, Tanks in Operation; Notice to the APCO; Telephone notification	Y	
8-5-112.2	Limited Exemption, Tanks in Operation; Compliance and certification before commencement of work	Y	
8-5-112.3	Limited Exemption, Tanks in Operation; No product movement; minimization of emissions	Y	
8-5-112.4	Limited Exemption, Tanks in Operation; Exemption does not exceed 7 days	Y	
8-5-301	Storage Tank Control Requirements (internal floating roof, external floating roof, or approved emission control system)	Y	
8-5-303	Requirements for Pressure Vacuum Valves	Y	
8-5-303.1	Requirements for Pressure Vacuum Valves; Set pressure	Y	
8-5-303.2	Requirements for Pressure Vacuum Valves; Installation, maintenance, operation	Y	
8-5-306	Requirements for Approved Emission Control Systems	Y	
8-5-328	Tank degassing requirements	Y	
8-5-328.2	Tank degassing requirements; Ozone Excess Day Prohibition	Y	
8-5-403	Inspection Requirements for Pressure Vacuum Valves	Y	

## IV. Source Specific Applicable Requirements

8-5-404	Certification	Y	
8-5-501	Records	Y	
8-5-501.1	Records; Type and amounts of liquid; true vapor pressure; Retain 24 months	Y	
8-5-501.2	Records; Internal and External Floating Roof Tanks; Seal Replacement Records – Retain 10 years	Y	
8-5-503	Portable hydrocarbon detector	Y	
8-5-602	Analysis of Samples, True Vapor Pressure	Y	
8-5-603	Determination of emissions	Y	
8-5-603.1	Determination of Emissions; Organic compounds specified in 8-5-306	Y	
8-5-604	Determination of Applicability	Y	
8-5-605	Pressure Vacuum Valve Gas Tight Determination	Y	

### NSPS Title 40 Part 60 Subpart Kb

### NSPS Subpart Kb for Tanks (08/11/1989)

40 CFR 60.110b(a)	Applicability and Designation of Affected Facility; Volatile organic liquid storage vessels > or = to 40 cu m, after 7/23/1984	Y
40 CFR 60.110b(b)	Applicability and Designation of Affected Facility; Exemptions for storage vessels < 75 cu m	Y
40 CFR 60.116b(a)	Monitoring of Operations; Record retention	Y
40 CFR 60.116b(b)	Monitoring of Operations; Permanent record requirements	Y
40 CFR 60.116b(f)	Monitoring of Operations; Waste storage tanks (indeterminate or variable composition)	Y

### NESHAPS Title 40 Part 61 NESHAPS, Benzene Waste Operations (01/07/1993) Subpart FF

40 CFR 61.340(a)	Applicability: Coke by-product recovery, petroleum refineries	Y
40 CFR 61.340(c)	Applicability: Exempt Waste	Y
40 CFR 61.340(d)	Exemption when routed to fuel gas system	Y

### NESHAPS Title 40 Part 63 NESHAPS for Petroleum Refineries (06/12/1996) Subpart CC

40 CFR 63.640(c)(3)	Wastewater streams and treatment operations associated with petroleum refining process units meeting the criteria of section 63.640(a)	Y
40 CFR 63.640(d)(5)	Exclusion for emission points routed to fuel gas system	Y

Applicable Condition	Regulation Title or Description of	Federally Enforceable (Y/N)	Future Effective Date
8.2.003	<b>Permit to Operate S-208 (D-920) Coker Feed Drum</b>		
8771	3 The coker feed drum (S-208) shall be abated by the flare gas recovery system including the flares (S-18 & S-19) at all times. [Basis: Cumulative Increase]	Y	
8771	4 The maximum material throughput at S-208 shall not exceed 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]	Y	
8771	5 To demonstrate compliance with Condition #4, the monthly material throughput at S-208 shall be maintained in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made.	Y	

## **IV. Source Specific Applicable Requirements**

[Basis: Cumulative Increase]

## V. SCHEDULE OF COMPLIANCE

The permit holder shall comply with all applicable requirements cited in this permit. The permit holder shall also comply with applicable requirements that become effective during the term of this permit on a timely basis.

## VI. PERMIT CONDITIONS

Any condition that is preceded by an asterisk is not federally enforceable.

**Condition** 98

**For** S-129 Marine Bulk Plant (LD-129)

1. The Owner/Operator shall provide the District with access to all crude lightering operations conducted in the San Francisco Bay and to be delivered to the Benicia Refinery for which Owner/Operator, Sea River shipping, or any other affiliated company is responsible. Access to lightering operations shall be provided via the regularly scheduled Water-taxi service. [Basis: Banked POC credits]
2. The Owner/Operator shall provide a listing and voyage history for all ships delivering crude to the Benicia Refinery, calculate emissions using the emission factors and part #6, provide pressure charts required in part #8, and submit a report on a quarterly basis to the district. [Basis: Reporting, Compliance Verification]
3. On a quarterly basis, the Owner/Operator shall provide the district with copies of all U.S. Army corporation of engineers form 3925 for all material transferred by or for the Owner/Operator in the San Francisco Bay for delivery to the Benicia Refinery. [Basis: Reporting]
4. On a quarterly basis, the Owner/Operator shall provide verification of each controlled transfer. [Basis: Reporting]
5. The Owner/Operator shall limit all lightering emissions of crude delivered to the Benicia Refinery to 48 tons per year. [Basis: Banked POC Credits]
6. The Owner/Operator shall use the following emission factors:
  - Controlled, lb/1000 gal
  - Ships- 0.04
  - Barges-0.05
  
  - Uncontrolled, lb/103gal
  - Ships-0.80
  - Barges-1.0.[Basis: Banked POC Credits]
7. The Owner/Operator shall limit the highest pressure developed during the lightering to no more than 80% of the lowest relief valve set pressure of either vessel involved in the transfer.

## VI. Permit Conditions

### Pressure

excursions not exceeding 15 minutes cumulative duration during a lightering transfer and not causing lifting of any pressure relief device shall be allowed. [Basis: VOC Minimization]

8. The Owner/Operator shall continuously record the pressure developed in the vessel tanks during lightering while the vessel is in District waters. [Basis: Banked POC credits]
9. The Owner/Operator shall test the tanks of all vessels involved in a lightering operation using the controlled emission factors to verify that there is no leakage at 80% of the lowest relief valve set pressure at least once every three years. This test shall be done at the completion of refurbishing ("Dry Dock") and shall test the entire system, manifold, pressure relief valves, hatch covers, etc. an OVA, bubble test, or other equivalent procedure approved by the APCO may be used. [Basis: VOC ]
10. During controlled lightering operations, the Owner/Operator shall isolate both vessels' inert gas systems from the vapor space of the cargo tanks. If inert gas is generated during the transfer of cargos, the emissions for that transfer shall be calculated using the uncontrolled emissions factors. If Owner/Operator can demonstrate that emissions were partially controlled, to the satisfaction of the APCO, emissions less than uncontrolled may be allowed. [Basis: Cumulative Increase]
11. A fugitive emissions maintenance program will be implemented on each lighter vessel used by the Owner/Operator. A complete survey of all above-deck equipment will be performed by Owner/Operator once per quarter. [Basis: Cumulative Increase]
12. Using an OVA, bubble test, or other procedure approved by the APCO, the Owner/Operator shall conduct a survey of all in-service pressure relief valves on both vessels prior to completion of 20% of the cargo transfer and repeated at least once after transferring 60% of the cargo. A leak shall be defined as a reading in excess of 500 ppmv, as methane. All readings in excess of 500 ppmv, as methane, shall be noted by source and maximum concentration. If any leak cannot be repaired, or valve removed from service, within 15 minutes of detection, the uncontrolled emission factors of part #6 shall be used to calculate emissions for the entire lightering event. If Owner/Operator can demonstrate that emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled may be used. All survey results shall be summarized in the report required by part #2.[Basis: RACT]
13. For vessels involved in controlled lightering events, the Owner/Operator shall not perform any operations that result in venting crude oil cargo vapors in District waters. These operations include as examples: open cargo inspections, open gauging, gas freeing of tanks for maintenance or inspection, or venting of ballast loading emissions. When any such venting operation is required, the circumstances of the incident will be logged, along with pertinent information such as tank volume, contents, and pressure before and after venting. The uncontrolled emission factors of part #6 shall be used to calculate emissions for the entire



## VI. Permit Conditions

loading operation. If Owner/Operator can demonstrate that emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled may be used. These emissions will be added to the emissions calculations and reported under part #2. [Basis: Cumulative Increase]

### Condition# 125

For Source S-1 Claus (F-1301A, Natural Gas)

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determination on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: Banked POC credits]
2. Deleted. [Basis: Owner/Operator installed the best available H<sub>2</sub>S monitor which was approved by the APCO.]
3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-001), which allows Tail Gas from S-1 to flow to the incinerator (F-1302A; A-14), when either of the sour gas feed valves (F002, F004) to source (S-1) are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-312.2, odors]
4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-1 Sulfur Recovery Unit by the Flexsorb SE Tail Gas Treatment Unit (A-56). The Owner/Operator shall return the recovered hydrogen sulfide to the S-1 and/or S-2 SRU for recovery as elemental sulfur. [Basis: Regulation 9-1-312.2, odors]

### Condition# 126

For Source S-2 Claus (F-1301B, Natural Gas)

1. The Owner/Operator shall provide reasonable access to 24 hour sulfur production data whenever the APCO or his/her designated representative performs compliance determinations on the Sulfur Recovery Unit (SRU), Tail Gas Clean-up Unit and main stack. [Basis: BAAQMD 9-1-313.2]
2. Deleted. [Basis: Owner/Operator installed the best available H<sub>2</sub>S monitor which was approved by the APCO.]
3. Except during upset conditions, the Owner/Operator shall not open the motor operated valve (MOV-003), that allows Tail Gas from S-2 to flow to the incinerator (F-1302B; A-15) when either of the sour gas feed valves (F052, F054) to source S-2 are open. A closed block valve or blind in the pertinent lines shall be considered sufficient to fulfill this requirement. [Basis: Regulation 9-1-312.2]
4. Except during upset conditions, the Owner/Operator shall route and clean the tail gases from the S-2 Sulfur Recovery Unit by the Flexsorb SE Tail Gas Treatment Unit (A-56). The Owner/Operator shall return the recovered hydrogen sulfide the S-1 and/or S-2 SRU for

## VI. Permit Conditions

recovery as elemental sulfur. [Basis: Regulation 9-1-312.2]

### Condition 254

#### For S-173 Process Furnace (F-902)

1. The Owner/Operator shall maintain the NOx emissions from S-173 at or below 40 ppm "dry" at 3% oxygen. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate the Furnace F-1060 for no more than 30 days per year. [Basis: Cumulative Increase]
3. The Owner/Operator shall conduct a District approved Source Test within 30 days after start-up and every six months thereafter to determine compliance with part #1. [Basis: Cumulative Increase]
4. Any "banking" application submitted by the Owner/Operator relative to this permit shall, at a minimum, include an analysis of the entire coker, specifically emissions associated with "running normal rates for longer periods." [Basis: Cumulative Increase]

### Condition# 639

#### For Source S-175

1. The Owner/Operator shall abate the visible emissions from the lime slurry tanks. [Basis: BAAQMD Regulation 1-301]

### Condition# 815

#### For Source S-1006

1. The Crude Unit throughput shall not exceed 135,000 barrels per day (any single day) of crude feed. [Basis: Cumulative Increase, toxics, offsets]
2. The Owner/Operator shall maintain a log of daily crude unit throughput. This data shall be available to the District upon request. A report shall be submitted to the District on a monthly basis. [Basis: Banked POC credits]

### Condition# 896

#### S-170 Fixed Roof Tank (F-401 and TK-2317)

1. Moved S-23 condition to Condition #14138 which also has conditions for S-23.2.  
The Owner/Operator shall limit emissions of NMHC from S-170 (5000 gallon polymer storage tank) to no more than 1 lb/day averaged over any 30-day period. [Basis: Cumulative Increase]
3. Owner/Operator shall maintain records of all tank S-170 loadings including date, type and amount of material loaded. The Owner/Operator shall maintain these records for at least five years and be available to the District upon request. [Basis: Cumulative increase]

### Condition# 1709

## VI. Permit Conditions

For Source S-129 Marine Bulk Plant (LD-129)

1. The Owner/Operator shall limit the total non-methane hydrocarbon emissions due to gasoline (mogas) loading across the marine dock to 43.4 tons/yr excluding shore-side fugitive emissions. [Basis: Cumulative Increase]
2. The Owner/Operator shall calculate the organic emissions as the sum of the volume of gasoline loaded on each vessel multiplied by the appropriate emission factor listed below. [Basis: Cumulative Increase]

EMISSION FACTOR	UNCONTROLLED	CONTROLLED
	LB VOC/1000 GAL	LB VOC/1000 GAL
Ship	1.80	0.22
Barge	3.40	0.30

3. The Owner/Operator shall design the John Zink abatement system, A-29, for at least 95%, by weight, abatement efficiency or the VOC emissions shall not exceed 2 lb/1,000 bbl loaded (non-methane). [Basis: Cumulative Increase]
4. The Owner/Operator shall maintain a log of each mogas loading across the dock, listing the date, vessel loaded, relief valve set pressure, maximum pressure developed, loading interval (time), and amount and type of material loaded. [Basis: Cumulative Increase]
5. The Owner/Operator shall install a continuous emission monitor and recorder for mass VOC emissions at A-29 discharge emission point, unless Owner/Operator can demonstrate to the satisfaction of the APCO that a concentration measurement alone will provide assurance of compliance with part 3. [Basis: Cumulative Increase]
6. The Owner/Operator shall maintain a continuous pressure recording of all controlled gasoline (mogas) loading. [Basis: Cumulative Increase]
7. The Owner/Operator shall submit a quarterly report of daily loadings and emissions on a District approved format. [Basis: Cumulative Increase]
8. Any vessel loading that develops a pressure exceeding 80% of the lowest relief valve set pressure shall be considered uncontrolled. The Owner/Operator shall use the uncontrolled emission factor in part 2 to determine the emissions from such loading operations. If the Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: Cumulative Increase]
9. The Owner/Operator shall test for gas leakage at all vessels used in controlled loading more than twice per year. This testing shall be conducted both prior and after refurbishing. The time between testing shall not exceed 36 months. Each test shall include the leakage rate in barrels per hour at 80% of the lowest relief valve set pressure and the set pressure for each relief valve. This test shall determine the leakage from the entire system, tanks, relief valves, vapor collection, hatch covers, etc. [Basis: Cumulative Increase]
10. If the testing in part 9 demonstrates a leakage rate greater than 5% of the total volume, the Owner/Operator shall calculate the emissions for any leak exceeding 5% of the total volume using worst case assumptions, highest vapor pressure and saturated vapor space. The

## VI. Permit Conditions

- Owner/Operator shall then add the calculated emissions to the total used to determine compliance with part 1. These added emissions shall be assumed to have occurred since the last leakage test. [Basis: Cumulative Increase]
11. If the calculations required by part 10 result in exceeding part 1, the Owner/Operator shall reduce their emissions across the marine dock by 110% of the excess for the next calendar year. [Basis: Cumulative Increase]
  12. The Owner/Operator shall conduct a leak test on all vessel relief valves, hatch covers, gauging connections and any other potential leaking points for every vessel used in vapor-controlled loading more than twice per year. Testing shall be done on an average of every ten loads for each vessel. Testing shall be done during loading operations. If any emission point that reads greater than 10,000 ppm (as methane) as determined by a portable hydrocarbon analyzer (OVA), that load shall be considered uncontrolled. All subsequent loads by that vessel shall also be considered uncontrolled until a leak test result lower than 10,000 ppm is achieved. Leak test results shall be submitted to the BAAQMD with each quarterly report. Concentrations shall be read 1 centimeter downstream of any discharge point. If Owner/Operator can demonstrate that the emissions were partially controlled to the satisfaction of the APCO, emissions less than uncontrolled will be considered. [Basis: RACT, Cumulative Increase]
  13. Deleted. [Basis: Source test completed.] 14. Deleted. [Basis: The District approved source testing facility prior to permit issuance.] 15. Deleted. [Basis: The Owner/Operator installed and operated the equipment prior to banking of any emission reduction credits.]
  16. The Owner/Operator shall provide access and an opportunity for the APCO to verify operation of all controlled loadings. [Basis: Cumulative Increase]

### Condition# 3253

For Source S-176 Material Handling, Salt Tank (TK-2325)

1. If dry salt is added to tank No. 2325 (S-176), the Owner/Operator shall install a particulate control device to control any emissions from this source. [Basis: Cumulative Increase]

### Condition# 4882

For Sources S-188 Oil/Water Separator and S-189 Oil/Water Separator

1. The Owner/Operator shall vent the emissions from the Oil/Water/Sediment Separator (S-188) and the Induced Static Flotation Cell (S-189) to the existing flare (S-18) at all times. [Basis: Cumulative Increase]
2. The Owner/Operator shall operate S-188 and S-189 within the the designed capacities (700 gallons per minute or less). [Basis: Cumulative Increase]

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Condition# 7015

For Sources S-214 (BIOX Aerator) and S-215 (BIOX Clarifier)

1. The Owner/Operator shall operate the S-214 (BIOX Aerator) and S-215 (BIOX Clarifier) in a manner that does not produce odors in such quantities as to cause a public nuisance under Regulation 1-301. [Basis: BAAQMD 1-301]

Condition# 7559

For Source S-133 (Spent Acid Tank)

1. The Owner/Operator shall route the VOC emissions emitted from the spent acid tank (S-133) to the flare gas recovery header (S-9). [Basis: Cumulative Increase]

**Condition** 8348

**For** S-1007 Alkylation Unit Permit condition 8348, Parts 1 through 4 superseded by Condition 10574.

1. Deleted.
2. Deleted.
3. Deleted.b
4. Deleted..

Condition# 8564

For Source S-57 Floating Roof Tank

1. The Owner/Operator shall not heat Tank 1701 (S-57) when storing "light" crude oil. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the vapor pressure of material stored in TK1701 to no more than 3.5 psi. [Basis: Cumulative Increase]
3. The following fugitive equipment, installed under Application #9817 to comply with 40 CFR 61, Subpart FF (Benzene Waste NESHAPS), shall be monitored, maintained, and repaired by the Owner/Operator in accordance with the NESHAPS [Basis: Cumulative Increase; Offsets]
  - 97 valves
  - 294 flanges
  - 3 pumps
1. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.] 2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule

## VI. Permit Conditions

- 18.]3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]4. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]

### Condition# 8771

For Source S-208 Coker Feed Drum D-920

1. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]]
3. The Owner/Operator shall abate the coker feed drum (S-208) by the flare gas recovery system including the flares (S-18 & S-19) at all times. [Basis: Cumulative Increase]
4. The Owner/Operator shall limit the material throughput at S-208 to no more than 29 million gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
5. To demonstrate compliance with Part #4, the Owner/Operator shall record the monthly material throughput at S-208 in a District approved log. The Owner/Operator shall keep these records on site and make them available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Cumulative Increase]

### Condition# 9296

For Sources S-40 Steam Boiler, S-158 Fixed Roof Tank, S-209 Methanol/Ethanol Railcar Unloading Facility, S-210 Floating Roof Tank, and S-211 MTBE Process Unit S-211 MTBE Unit

- A1. The Owner/Operator shall limit the total fugitive POC emissions from S-211 to no more than 10.58 tons in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
- A2. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.] B
- A3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]

S-209 Methanol/Ethanol Unloading Station

- B1. The Owner/Operator shall only permit the transport trucks to travel on paved roads at all times inside of the facility. [Basis: Cumulative Increase]
- B2. All deliveries of methanol/ethanol shall be from the transport trucks unless the Owner/Operator first receive prior written approval from the APCO to use other delivery modes. [Basis: Cumulative Increase]
- B3. Deleted. [Basis: The Owner/Operator paved the unpaved road prior to the operation of the MTBE facility.]B4. The Owner/Operator shall limit the total number of truck deliveries of methanol/ethanol at the facility to no more than 2920 trucks in any rolling 12

## VI. Permit Conditions

- consecutive month period. [Basis: Cumulative Increase]
- B5. The Owner/Operator shall deliver the dispensed methanol/ethanol from the transport trucks to the S-210 methanol/ethanol tank or any tank with equivalent controls subject to advance written approval by the APCO. [Basis: Cumulative Increase]
- B6. The Owner/Operator shall limit the total fugitive POC emissions from S-209 to no more than 0.41 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase]
- B7. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- B8. Deleted. [Basis: Maximum leak concentrations are covered by Regulation 8, Rule 18.]
- B9. The Owner/Operator shall record the total number of truck deliveries of methanol/ethanol weekly in a District approved log and totalized monthly. The Owner/Operator shall retain these records for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]

### S-210 Methanol/ethanol Tank

- C1. The Owner/Operator limit the total throughput of product from S-210 to no more than 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
- C2. The Owner/Operator shall limit the total POC emissions from S-210 Storage Tank, including associated fugitive POC emissions, to no more than 0.87 ton in any rolling 12 consecutive month period. [Basis: Cumulative Increase, BACT, Offsets]
- C3. Deleted. [Basis: Inspection and Maintenance program is covered by Regulation 8, Rule 18.]
- C4. Deleted. [Basis: Maximum leak concentration is covered by Regulation 8, Rule 18.]
- C5. The Owner/Operator shall only store methanol/ethanol in the S-210 internal floating roof tank unless written authorization is received from the APCO allowing the use of another product in advance of any use of such product. [Basis: Cumulative Increase, Offsets, Toxics]
- C6. The Owner/Operator shall record the total monthly throughput of methanol/ethanol withdrawn from the S-210 Storage Tank in a District approved log. This record shall be retained for a period of at least 5 years from date of entry. The log shall be kept on site and made available to District staff upon request. [Basis: Cumulative Increase]

### S-40 Steam Boiler

- D1. The Owner/Operator shall equip the steam boiler (S-40) with Low NO<sub>x</sub> burners and flue gas recirculation. [Basis: BAAQMD Regulation 9-10, Offsets, Cumulative Increase]
- D2. The Owner/Operator shall limit the NO<sub>x</sub> concentration from S-40 to no more than 30 ppmv, dry, corrected to 3 % oxygen, as averaged over any consecutive 12 month period. (Basis: Offsets)
- D3. The Owner/Operator shall limit the CO concentration to no more than 400 ppmv, dry, corrected to 3 % oxygen. [Basis: BAAQMD Regulation 9-10, Cumulative Increase]

## VI. Permit Conditions

- D4. The Owner/Operator shall operate the scrubber system upstream of S-40 Boiler at an annualized daily averaged (calendar year) total reduced sulfur concentration at or below 51 ppm, by volume. [Basis: Offsets]
- D5. Completed
- D6. The Owner/Operator shall maintain daily records, in a District approved log, of the total reduced sulfur concentration required in part 4. These records shall be retained for a period of at least 5 years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: Banked POC credits]
- D7. The Owner/Operator shall operate the the S-40 Utility package Boiler at a firing rate at or below 218 million Btu per hour. (Basis: Cumulative Increase, Toxics)
- D8. For S-40, the Permit holder shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NO<sub>x</sub> and O<sub>2</sub>. (BARCT: BAAQMD Regulation 9-10, Monitoring, Records)
- D9. The S-40 Steam Boiler shall be equipped with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. [Monitor and Recorder]
- D10. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions. All records shall be retained for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: [Basis: Cumulative Increase Offsets]
- CEM data and CEM indicated excesses;
  - Fuel gas H<sub>2</sub>S concentration (24-hour average);
  - Fuel gas total reduced sulfur concentration (24 hour Average)
  - Fuel gas type and fuel usage rates (cubic feet/day)
  - Fuel heat content, HHV [24-hour average]
  - Actual daily firing rate (Btu/day)
- D11. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

### S-1024 Light Cat Naphtha Hydrofiner

- E1. The total throughput of product at this source shall not exceed 24,000 barrels per day, as average over any calendar year. [Basis: Cumulative Increase, Toxics]
- E2. The total daily throughput of product at this source shall be recorded daily in a District approved log. This record shall be retained for a period of at least five years from the date of entry. It shall be kept on site and made available to the District staff upon request. [Basis: Recordkeeping]

Condition# 9584



## VI. Permit Conditions

For Source S-158 Fixed Roof Storage Tank

1. The Owner/Operator shall limit the throughput at the storage tank S-158 to no more than 10,000 gallons of perchloroethylene during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
2. To demonstrate compliance with Part #1, the Owner/Operator shall maintain monthly throughput records of perchloroethylene at S-158 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 5 years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 9897

For Source S-11 Activated Carbon Bin TK-2061

1. The Owner/Operator shall limit the receipt of the activated carbon at the Activated Carbon Bin Tk-2061 (S-11) to no more than 292 tons during any rolling 12 consecutive month period.[Basis: Cumulative Increase]
2. To demonstrate compliance with Part #1, the Owner/Operator shall record the monthly receipt of the activated carbon, totaled on a yearly basis, at S-11 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least five years from the date on which a record is made. [Basis: Cumulative Increase]

Condition# 10574 For Sources S-21, S-22, S-220, S-227, S-1020, S-1021, S-1022, S-1023, S-1024, and S-1026

CLEAN FUELS PROJECT  
APPLICATION 10392

### PERMIT CONDITIONS

S-220 Hot Oil System  
S-21 Hydrogen Reformer Furnace, F-301  
S-22 Hydrogen Reformer Furnace, F-351  
Refinery Fuel Gas System

Source Test/Continuous Emission Monitors

For any source test or continuous emission monitor/recorder (CEM) required by any permit condition associated with the Clean Fuels Project (CFP), the following shall apply:

## VI. Permit Conditions

A. Completed

B. Completed

C. Completed

D. Completed

E. Completed

F. The Owner/Operator shall install, maintain, calibrate and operate each CEM in accordance with all applicable District regulations. For Part number 15, the Owner/Operator shall include a data logging device that averages the CEM concentration readings for the Refinery fuel gas over the 24-hour time period (calendar day). [Basis: BACT]

G. The Owner/Operator shall keep records of all necessary information to demonstrate compliance with all permit conditions associated with the Clean Fuels Project. The Owner/Operator shall retain all records for at least five years from the date of entry, and shall be made available to the District upon request. This includes, but is not limited to, records of the following: [Basis: BACT]

Fuel usage type and amount for:

S-220 Hot Oil System

S-21 Hydrogen Reformer Furnace

S-22 Hydrogen Reformer Furnace

CEM data and CEM indicated excesses;

Fuel gas H<sub>2</sub>S concentration (24-hour Average);

Fuel gas total reduced sulfur Concentration (24-hour Average)

Fuel gas usage rates (cubic feet/day)

Fuel heat content, HHV [24-hour average]

Actual Firing Rate (Btu/month)

Miscellaneous

H. The Owner/Operator shall vent any process vessel depressurization to a control device with an overall capture and destruction efficiency of 95%, on a mass basis. [Basis: Cumulative Increase]

I. Deleted. [Basis: Recordkeeping is covered by BAAQMD Regulation 9-10-504.]

FUGITIVES

## VI. Permit Conditions

S-1020 Heartcut Tower  
S-1021 Heartcut Saturation Unit  
S-1022 Catalytic Reformer T90 Tower  
S-1023 Catalytic Naphtha T90 Tower  
S-1024 Light Catalytic Naphtha Hydrotreater  
S-1025 C5/C6 Splitter  
S-220 Hot Oil System  
S-227 Storage Tank  
Deleted. [Basis: S-228 Storage Tank was never installed.]  
Deleted. [Basis: S-229 Storage Tank was never installed.]  
S-1007 Alkylation Unit  
S-1011 Heavy Catalytic Naphtha Hydrotreater  
S-1014 Virgin Light Ends Unit  
S-151 Waste Water Treatment Unit  
S-1003 Hydrocracking Unit

1. The Owner/Operator shall equip any new pump installed in light liquid hydrocarbon service as part of the Clean Fuels Project (CFP) with any sealless pump technology approved by the APCO or one of the following approved BACT technologies: [Basis: Cumulative Increase, Offsets, Toxics]
  - a) equipped with dual mechanical seals, having a heavy liquid barrier fluid. The barrier fluid reservoir shall be vented to a control device having at least 95% control efficiency, or the barrier fluid shall be operated at a pressure higher than the process stream pressure.
  - b) equipped with a "canned" pump
  - c) equipped with a magnetically driven pump
2. Deleted.
3. Deleted.
4. The Owner/Operator shall equip all hydrocarbon flow control valves installed as part of the Clean Fuels Project with live loaded packing systems and polished stems, or equivalent. [Basis: BACT]
5. Except as required by Part number 4, the Owner/Operator shall equip all other hydrocarbon valves greater than 2 inches installed as part of the CFP with one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. [Basis: BACT]
6. Deleted. [Basis: Inspection frequency of valves covered by Regulation 8, Rule 18.]
7. The Owner/Operator shall equip all flanges installed in the piping systems as a result of the CFP with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. Deleted rest of condition. [Deletion Basis: Leak repair requirements are covered]

## VI. Permit Conditions

- under Regulation 8, Rule 18.] [Basis: BACT, Offsets, Cumulative Increase, Toxics]
8. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of the CFP with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. The Owner/Operator shall vent all reciprocating compressors installed in hydrocarbon service as part of the CFP to a control device having at least a 95% control efficiency. Any new compressor in hydrocarbon service with less than 50% hydrogen must comply with the applicable standards of NSPS 40 CFR 60, Subpart GGG. [Basis: BACT, Offsets, Cumulative Increase, Toxics, NSPS]
  9. Completed
  10. The Owner/Operator shall equip the pressure relief valves, installed as part of the CFP, in gaseous POC and light liquid service to the gas recovery system, or an equivalent control device approved by the District (equivalent does not include rupture disk and/or soft-seat, if vented to atmosphere). This condition does not apply to pressure relief valves on storage tanks or pressure relief valves that handle only low vapor pressure organic liquids (< 0.5 psia). [Basis: BACT]
  11. The Owner/Operator shall fit all process drains installed as part of the CFP with a "P" trap sealing system which inhibit POC emissions from the process wastewater system from escaping through the drain. [Basis: BACT]
  12. The Owner/Operator shall limit the total fugitive POC emissions from all new and modified equipment installed as a result of the Clean Fuels Project, which includes Sources S-1020 through S-1025, S-220, S-227, S-1007, S-1011, S-1014 and S-151 to no more than 20.8 tons in any rolling 365 consecutive day period. This total may be adjusted by the District in accordance with the provisions of Part # 9. [Basis: Cumulative Increase]

### FUEL GAS SYSTEM

13. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than any of the following: (a) 100 ppmv H<sub>2</sub>S, averaged over a 24-hour calendar day and (b) 160 ppm H<sub>2</sub>S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS]
14. The Owner/Operator shall limit the refinery fuel gas combusted in any CFP equipment to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four quarter period. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]
15. The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H<sub>2</sub>S content and total reduced sulfur content of the refinery fuel gas prior to combustion in the CFP combustion sources (S-21, S-22 and S-220) [Basis: Monitoring and Records].
16. The Owner/Operator shall calculate and record the 24-hour average H<sub>2</sub>S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts No. 13 and 14, based on the previous 24 individual hourly averages. On a quarterly basis, the

## VI. Permit Conditions

Owner/Operator shall report for the following S-220, S-21 and S-22:

- (a) the daily fuel consumption,
- (b) daily averaged H<sub>2</sub>S content of the refinery fuel gas
- (c) daily averaged total reduced sulfur content
- (d) quarterly daily averaged H<sub>2</sub>S content
- (e) quarterly daily averaged total reduced sulfur content
- (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Contemporaneous offsets provided in Application #18888 for S-237 Boiler, BACT]

### COMBUSTION SOURCES

#### General Combustion

The following are general requirements for all new or modified combustion sources associated with the Clean Fuels Project:

- 17. The Owner/Operator shall only fire in all new and modified combustion sources (S-21, S-22 and S-220), as part of the CFP, natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H<sub>2</sub>S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day). [Basis: BACT, Cumulative Increase]
- 18. The Owner/Operator shall limit the total combined emissions from these new and modified combustion sources (S-21, S-22 and S-220), installed as a part of the CFP to no more than the following annual limits: <Basis: BACT, Cumulative Increase, Offsets> <Basis: SO<sub>2</sub> Contemporaneous offset credits for SO<sub>2</sub> and PM<sub>10</sub> in Application #18888> S-21, S-22 and S-220

Pollutant Annual (tons)

NO<sub>x</sub>(1) 17.11 (S-220 only)

CO 134.904

SO<sub>2</sub> 59.358

PM<sub>10</sub> 26.981

POC 15.514

- 
- 1. ~~NO<sub>x</sub> emission increases from new S-220 Hot Oil System only. The two modified combustion sources (S-21 and S-22) will not increase NO<sub>x</sub> emissions from the baseline total of 195.3 and~~

## VI. Permit Conditions

~~191.8 tons per year, respectively~~ Deleted. [Basis: There is no NO<sub>x</sub> increase in emissions from the S-21 and S-22 Hydrogen Heaters.]

19. The three furnaces (S-21, S-22 and S-220) with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. [Basis: Monitoring and records]
20. The Owner/Operator shall calculate and totalize NO<sub>x</sub>, CO, POC, SO<sub>2</sub> and PM<sub>10</sub> emissions from all new and modified combustion sources (S-21, S-22 and S-220) in the Clean Fuels Project on a calendar year basis to demonstrate compliance with Condition number 18. The emission factors or procedure to be used for this purpose shall be: NO<sub>x</sub>: Summation of daily emissions in Alternative Compliance Plan for Regulation 9-10 compliance  
CO: 0.0200 lb/MMBtu  
POC: 0.0023 lb/MMBtu  
SO<sub>2</sub>: 0.0069 lb/MMBtu  
PM<sub>10</sub>: 0.0040 lb/MMBtu

The Owner/Operator shall retain the results on site for a period of at least five years and make them available to District staff upon request.

[Basis: BACT, Cumulative Increase]

21. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the visible emissions from the three combustion sources (S-21, S-22 and S-220) or the three abatement devices (A-43, A-44 and A-45) installed as part of the CFP to no more than Ringelmann No. 1.0 or 20% opacity. [Basis: BAAQMD 6-301]
22. For purposes of permitting S-220, S-21 and S-22, a maximum limit of 24 consecutive hours has been set for startup and shutdown. The 24-consecutive-hour startup period may be extended to include furnace dryout/warmup periods (mechanical and process) that are limited to not exceed an additional 72 consecutive hours. The 24 hour period does not apply during the initial startup of the Units. [Basis: Cumulative Increase]

### S-220 Hot Oil System

23. Except during startup and shutdown, the Owner/Operator shall limit emissions of nitrogen oxides from the S-220 Hot Oil System to no more than 10 ppmv, dry, corrected to 3% oxygen, (0.0118 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, Offsets, Cumulative Increase]
24. For the S-220 Hot Oil System, the Owner/Operator shall limit the CO emissions to no more than 28 ppmv, dry, corrected to 3% oxygen, (0.02 lb/MM Btu) averaged over 8 hours, except during periods of startup and shutdown. [Basis: BACT, Offsets, Cumulative Increase]
25. The Owner/Operator shall abate S-220 at all times by A-45 Selective Catalytic Reduction

## VI. Permit Conditions

- System when it is in operation. Operation of the A-45 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT, Offsets, Cumulative Increase]
26. Except during periods of startup and shutdown, the Owner/Operator shall limit ammonia emissions (ammonia slip) from the SCR unit (A-45) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3 hour period. [Basis: BACT, Offsets, Cumulative Increase]
27. For source S-220, the Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NO<sub>x</sub> and O<sub>2</sub>. [Basis: Monitoring]
28. Completed
29. The Owner/Operator shall limit the total combined heat input for S-220 to no more than 28.908 million therms (2.89 trillion Btus) in any 365 consecutive day period. [Basis: BACT, Offsets, Cumulative Increase]
30. The Owner/Operator shall limit the firing rate of the S-220 MRU Hot Oil Furnace to no more than 351 million Btu per hour (Maximum firing rate). (Basis: Cumulative Increase, Toxics)  
S-21 Hydrogen Reformer Furnace, F-301  
S-22 Hydrogen Reformer Furnace, F-351
31. For the S-21 and S-22 furnaces, the Owner/Operator shall limit the emissions of nitrogen oxides based on CEM data to no more than 60 ppmv, dry, corrected to 3% oxygen, ( 0.0708 lb/MMBtu) averaged over any consecutive 24 hour period, except during periods of startup and shutdown. For the S-21 and S-22 furnaces when monitored without a CEM, the Owner/Operator shall limit the emissions of nitrogen oxides to no more than 60 ppmv, dry, corrected to 3% oxygen determined in accordance with the test method outlined in the District Source Test Method 13A or 13B. [Basis: Cumulative Increase, Offsets]
32. For the S-21 and S-22 furnaces, the Owner/Operator shall limit emissions of CO to no more than 28 ppmv, dry, corrected to 3% oxygen (0.02 lb/MM Btu) averaged over any consecutive 8 hour period, except for periods during periods of startup and shutdown. [Basis: Cumulative Increase]
33. The Owner/Operator shall equip Sources S-21 and S-22 with low NO<sub>x</sub> burners. The Owner/Operator shall operate the low NO<sub>x</sub> burners systems in accordance with the manufacturer's recommended procedures during periods of operation. [Basis: BAAQMD 9-10]
34. Not Implemented
35. Not Implemented
36. Completed
37. The Owner/Operator shall limit the total combined heat input for S-21 and S-22 to no more than 106 million therms (10.6 trillion Btus) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets]

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38. The Owner/Operator shall limit the firing rate of the S-21 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
39. The Owner/Operator shall limit the firing rate of the S-22 Hydrogen Reforming Furnace to no more than 614 million Btu per hour (maximum firing rate) for all fuels combusted at the source. (Basis: Cumulative Increase, Toxics)
40. Deleted. [Basis: The Owner/Operator has installed the continuous emission monitor for S-21 for NO<sub>x</sub> and O<sub>2</sub>.]
41. Deleted. [The Owner/Operator has installed the continuous emission monitor for S-22 for NO<sub>x</sub> and O<sub>2</sub>.]

### TANKAGE

#### S-227 175,000 Barrel Fixed Roof Tank

42. The S-227 Pentane Storage Tank installed by the Owner/Operator shall be a fixed roof tank connected to the A-46/A-47 vapor recovery system. NSPS requirements of 40 CFR 60, Subpart Kb will be applied to this tank. [Basis: Cumulative Increase, Offsets, Toxics]
43. The Owner/Operator shall operate Tank S-227 with a minimum pressure relief valve (PRV) set pressure of 1 psig. [Basis: BAAQMD 8-5]
44. The Owner/Operator shall not store any material in S-227 storage tank, other than the materials specified in this application for the tank, if the new material will result in an emission increase of POC or an increase in toxicity. This prohibition includes (but is not limited to) the storage of a new material with a) higher vapor pressure at actual storage temperature; b) lower initial boiling point; c) larger percentage of a toxic component; and d) new toxic compounds. The Owner/Operator shall notify the District, in writing, of any proposed product storage changes, as prohibited herein, and received written authorization from the APCO in advance of any such use. [Basis: Cumulative Increase, Offsets, BACT, Toxics]
45. The Owner/Operator shall vent all POC emissions from tank cleaning, degassing, or product changeout to a control device with an overall capture and destruction efficiency of at least 90%, on a mass basis. [Basis: RACT]

### TOXICS

46. Completed. [Basis: The Owner/Operator has performed the necessary source tests for toxics.]

### OFFSETS (DISTRICT EMISSIONS BANK)

47. Completed. [Basis: The Owner/Operator has met their offset obligation for NO<sub>x</sub>, POC, SO<sub>2</sub>



## VI. Permit Conditions

and PM10.]

48. Completed. [Basis: The Owner/Operator has paved two heavily traveled roads in the Refinery to provide contemporaneous emissions reduction for PM10.]
49. Completed. . [Basis: The Owner/Operator has made the paved road wide enough to for vehicles to pass without excursion onto the unpaved shoulders.]
50. Deleted. [Basis: No longer required to monitor mass emissions from the S-21 and S-22 Hydrogen Furnaces through a condition due to required monitoring of furnaces under Regulation 9, Rule 10.]
51. The total daily throughput of alkylate from the Alkylation Unit (S-1007) shall not exceed 22,800 barrels. (Basis: BACT, Cumulative Increase)
52. The Alkylate production Project in Application 3782, when installed, shall consist of no more than 100 valves, 200 connectors/flanges, 2 pressure relief valves and 3 pumps. The POC emission from the entire project shall not exceed 0.174 ton/year. The annual mass limit for POC may be adjusted based on the final fugitive component count. Any additional POC offsets required due to a larger fugitive component count would need to be provided prior to permit issuance. (Basis: Cumulative Increase, Offsets)

Condition# 10633

For Source S-97 Floating Roof Tank (TK-1776)

1. The Owner/Operator shall record the total daily throughput of product from S-97 in a District approved log. This record shall be retained for a period of at least five years from date of entry. The logs shall be kept on site and made available to District staff upon request. [Basis: 2-6-503]

Condition# 10797

For Source S-207, Floating Roof Tank

1. The Owner/Operator shall limit the total release of emissions from this S-207 project for delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, to no more than the following limits in any rolling 365 consecutive day period : [Basis: Cumulative Increase]

Pollutant Tons

## VI. Permit Conditions

NO<sub>x</sub> 36.7  
CO 3.7  
POC 8.1  
SO<sub>2</sub> 9.5  
PM<sub>10</sub> 1.6

2. The Owner/Operator shall limit the total release of POC emissions from this S-207 MTBE project to no more than 140 pounds in any rolling 24 consecutive hour period. This POC total is defined as the sum of all project-related emissions from: (a) the storage tank; (b) valves, pumps and flanges (fugitive emissions); and (c) the cargo ships and tugs in District waters, assist tugs, tugs during maneuvering and (d) transferring of the MTBE from the cargo carrier to the S-207 Receipt Tank. [Basis: Cumulative Increase]
3. Deleted. [Basis: The inspection and maintenance program for fugitive components are covered under Regulation 8, Rule 18.]
4. The Owner/Operator shall store only MTBE and/or mogas in the S-207 External Roof Storage Tank. [Basis: Cumulative Increase, BACT, Offsets, Toxics]
5. The Owner/Operator shall limit the total throughput of MTBE at S-207 to no more than 5,800,000 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
6. The Owner/Operator shall limit the total throughput of mogas at S-207 to no more than 16,936,400 barrels in any rolling 365 consecutive day period. [Basis: Cumulative Increase]
7. The Owner/Operator shall record the total daily throughput of MTBE and mogas withdrawn from the S-207 Storage Tank in a District approved log. This record shall be retained for a period of at least five years from date of entry. The log shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]
8. The owner/operator shall maintain daily records (calendar day), in a District approved log, for: (1) the total number of MTBE deliveries by ship and barge, (2) ship and tug boat fuel usage (actual or estimated if not logged in) in District waters attributable to the S-207 project only, (3) type of fuel, (4) hours of ship operation in District waters attributable to the S-207 project only, (5) size capacity of ship and barge in DWEIGHT. In addition, the daily throughput of MTBE transferred at the refinery dock from the cargo ship or barge to S-207 shall be recorded in a District approved log. All records shall be retained for a period of at least five years from the date of entry. This log shall be kept on site and made available to the District on request. If a cargo carrier for this S-207 project calls on multiple ports, such as in Martinez, the Owner/Operator will be charged for all round trip emissions from the port to the existing refinery dock in Benicia and back to port. For the purposes of record keeping, the Owner/Operator needs to maintain records only for the portion of the project chargeable to their operation. [Basis: Cumulative Increase]
9. On the day of MTBE delivery at the refinery and each day of MTBE transfer from the cargo carrier to S-207, the owner/operator shall determine, using a District approved calculation procedure, the total POC emissions from this project to verify compliance with Part Number

## VI. Permit Conditions

2. These daily totals shall be entered into the log and shall be summarized monthly. The Owner/Operator shall submit a quarterly summary report to the District by the 10th day of the month following the close of the quarter. All records shall be retained for at least five years from date of entry. This log shall be kept on site and made available to the District staff upon request. [Basis: Cumulative Increase]

### Condition# 11030

For Sources S-3 and S-4 Furnaces

1. The Owner/Operator shall limit the start-up of the CO Furnaces (S-3 and S-4) to no more than 72 hours. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the shutdown of the CO Furnaces (S-3 and S-4) to no more than 120 hours. [Basis: Cumulative Increase]
3. When the Thermal DeNOx Systems (A-52 & A-53) are operational, NOx emissions from the abated sources (S-3 and/or S-4) shall not exceed 150 ppm, dry at 3% oxygen, based on an operating day average. [Basis: BARCT, Cumulative Increase]
4. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the start-up time and shutdown time of S-3 and S-4 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]
5. Deleted. [Basis: The Owner/Operator has conducted the District approved source test on S-3 and S-4 to demonstrate compliance with Part #3. The Owner/Operator has provided the source test report to the District.]
6. Effective from May 31, 1995, the Owner/Operator shall abate the NOx emissions from the CO Furnaces (S-3 and S-4) at all times by the A-52 and/or A-53 Thermal DeNOx Systems. [Basis: Cumulative Increase]
7. The Owner/Operator shall limit the total consumption of refinery fuel gas plus CO at each source to no more than the following:
  - S-3 CO Furnace: 46.3 million therms per year (Basis: Cumulative Increase)
  - S-4 CO Furnace: 22.7 million therms per year (Basis: Cumulative Increase)

### Condition# 11879

For Source S-150 Sour Wastewater Tank

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NOx) to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)

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3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
  4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature). This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Part #3. (Basis: Regulation 2-1-403)
  5. The Owner/Operator shall equip A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the oxidation temperature in A-57. (Basis: Temperature Monitoring)
  6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
  7. The minimum temperature requirement of Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
    - a. A temperature excursion not exceeding 20oF.
    - b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
    - c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
      - (1) The excursion does not exceed 50oF.
      - (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)
- For each Allowable Temperature Excursion that exceeds 20 degrees Fahrenheit and 15 minutes in duration, the Owner/Operator shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:
- a. Thermal oxidizer controller set temperature.
  - b. Starting date and time, and duration of each Allowable Temperature Excursion.
  - c. Minimum temperature during each Allowable Temperature Excursion.
  - d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year.
  - e. All strip charts or other temperature records.
- (Basis: Regulation 2-1-403)

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8. No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NO<sub>x</sub>, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NO<sub>x</sub>, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)
9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
11. The Owner/Operator shall determine NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When commissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]
12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
  - a. Daily NMHC emission rate in pounds per day.
  - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
  - c. Daily flow rate and outlet NMHC concentration.
  - d. Carbon canister changeout date.
  - e. Total volume of gas recorded between carbon canister changeout.
13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the

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- APCO, repaired within 24 hours. [Basis: RACT]
14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]
  15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
  16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

Condition# 11880

For Sources S-193, S-196, S-205, and S-206 Wastewater Tanks

1. The Owner/Operator shall abate this source using two 1200 lb (minimum) carbon canisters (A-36) in series at all times. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the combined non-methane hydrocarbons (NMHC) emissions at the outlets of the second carbon canisters of A-36 and A-37 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
3. The Owner/Operator shall determine the NMHC flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. [Basis: Cumulative Increase]
4. To demonstrate compliance with Part (2), the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]
  - a. Daily NMHC emission rate in pounds per day.
  - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
  - c. Daily flow rate and outlet NMHC concentration.
  - d. Carbon canister changeout date
  - e. Total volume of gas recorded between carbon canister changeout.
5. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and any appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
6. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered

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under Regulation 8, Rule 18.]

7. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase

Condition# 11882

For Sources S-199 Fixed Roof Tank D-2055 and S-200 Collection Drum D-2056

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>) to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD Regulation 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall keep the outlet temperature of A-57 at or above 1400 degrees Fahrenheit (minimum temperature). This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Part #3. (Basis: Regulation 2-1-403)
5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
  - a. A temperature excursion not exceeding 20oF.
  - b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
  - c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
    - (1) The excursion does not exceed 50oF.
    - (2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as

## VI. Permit Conditions

one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)

For each Allowable Temperature Excursion that exceeds 20 degrees Fahrenheit and 15 minutes in duration, the Owner/Operator shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. The Owner/Operator shall retain these records for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Thermal oxidizer controller set temperature.
  - b. Starting date and time, and duration of each Allowable Temperature Excursion.
  - c. Minimum temperature during each Allowable Temperature Excursion.
  - d. Number of Allowable Temperature Excursions per month , and total number for the current calendar year.
  - e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)
- 8.No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NO<sub>x</sub>, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NO<sub>x</sub>, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)
9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Regulation 8, Rule 2]
11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase, ]
12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC



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- monitor is operating. [Basis: Cumulative Increase]
- a. Daily NMHC emission rate in pounds per day.
  - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
  - c. Daily flow rate and outlet NMHC concentration.
  - d. Carbon canister changeout date.
  - e. Total volume of gas recorded between carbon canister changeout.
13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]
15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

### Condition# 11883

For Source S-201 (Truck Loading Operation)

1. The Owner/Operator shall abate Source S-201 using a vapor balancing system (A-39) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

### Condition# 11884

For Source S-202 (Truck Loading Operation)

1. The Owner/Operator shall abate S-202 using a vapor balancing system (A-38) at all times. [Basis: Cumulative Increase]
2. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]

### Condition# 11888

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For Source S-131 Wastewater Sludge Drum D-2069

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>) to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature). This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Part #3. (Basis: Regulation 2-1-403)
5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: Monitoring]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. The Owner/Operator shall use this temperature monitor to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
  - a. A temperature excursion not exceeding 20oF.
  - b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
  - c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
    - (1) The excursion does not exceed 50oF.
    - (2) The duration of the excursion does not exceed 24 hours.Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit (Basis: Regulation 2-1-403)  
For each Allowable Temperature Excursion that exceeds 20 degrees Fahrenheit and 15 minutes in duration, the Owner/Operator shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records

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- shall include at least the following information:
- a. Thermal oxidizer controller set temperature.
  - b. Starting date and time, and duration of each Allowable Temperature Excursion.
  - c. Minimum temperature during each Allowable Temperature Excursion.
  - d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year.
  - e. All strip charts or other temperature records. (Basis: Regulation 2-1-403)
8. No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NO<sub>x</sub>, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NO<sub>x</sub>, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)
9. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]
10. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: RACT]
11. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. The Owner/Operator shall calculate the NMHC concentration by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby services, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]
12. To demonstrate compliance with Part 10, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
- a. Daily NMHC emission rate in pounds per day.
  - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
  - c. Daily flow rate and outlet NMHC concentration.
  - d. Carbon canister changeout date.
  - e. Total volume of gas recorded between carbon canister changeout.

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13. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor services on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
14. The Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: Cumulative Increase]
15. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
16. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

### Condition# 12727

For Sources S-232 ESP Fines Vacuum Conveying system  
and S-233 ESP Fines Storage Bin]

1. The Owner/Operator shall limit the throughput of ESP fines at the Vacuum Conveying System (S-232) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
2. The Owner/Operator shall limit the throughput of ESP fines at the ESP Fines Storage Bin (S-233) to no more than 7300 tons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]
3. The Owner/Operator shall properly abate the operation of S-232 by the Vacuum Filter (A-54). [Basis: Cumulative Increase]
4. The Owner/Operator shall properly abate the operation of S-233 by the Bin Filter (A-55). [Basis: Cumulative Increase]
5. To demonstrate compliance with Parts #1 and 2, the Owner/Operator shall maintain the monthly throughput records of ESP fines at S-232 and S-233 in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]

### Condition# 13045

For Source S-143 Fixed Roof Tank

1. The Owner/Operator shall limit the throughput of corrosion inhibitor at the Corrosion Inhibitor Tank (S-143) to no more than 15,000 gallons during any rolling 12 consecutive month period. [Basis: Cumulative Increase]

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2. To demonstrate compliance with Part #1, the Owner/Operator shall record the throughput of corrosion inhibitor at S-143 monthly in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. [Basis: Cumulative Increase]

### Condition# 13319

For Sources S-194 Oil/Water/Sediment Separator 2006

S-195 Oil/Water/Sediment Separator 2056

S-197 Induced Static Flotation Cell 2007

S-198 Induced Static Flotation Cell 2057

1. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>) to no more than 25 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)
2. The Owner/Operator shall limit the emissions of carbon monoxide (CO) to no more than 50 ppm, by volume, dry, corrected to 3% oxygen, as determined by the applicable BAAQMD Source Test Method. (Basis: BAAQMD 2-2-112)
3. The Owner/Operator shall maintain the VOC destruction efficiency of the A-57 Thermal Oxidizer at or above 98.5%, by weight. (Basis: NSPS and NESHAPS)
4. The Owner/Operator shall maintain the oxidation temperature of A-57 Thermal Oxidizer at or above 1400 degrees Fahrenheit (minimum temperature). This minimum temperature may be adjusted by the District if source test data demonstrate that an alternate temperature is necessary for or capable of maintaining compliance with Part #3. (Basis: Regulation 2-1-403)
5. The Owner/Operator shall equip the A-57 Thermal Oxidizer with a temperature measuring device capable of continuously measuring and recording the outlet temperature in A-57. [Basis: NSPS]
6. This device shall be accurate to within 20 degrees Fahrenheit (oF) and shall be maintained in accordance with manufacturer's recommendations. This temperature monitor shall be used to determine compliance with the temperature requirement in Part 4. (Basis: Regulation 1-521)
7. The minimum temperature requirement of Part 4 shall not apply during an "Allowable Temperature Excursion" below the minimum temperature, provided that the controller set temperature is at or above the minimum temperature requirement. An Allowable Temperature Excursion is one of the following:
  - a. A temperature excursion not exceeding 20 degrees Fahrenheit.
  - b. A temperature excursion for a period or periods aggregating less than or equal to 15 minutes in any hour.
  - c. A temperature excursion for a period or periods aggregating more than 15 minutes in any hour, provided that both of the following criteria are met. Only 12 such excursions are allowed per calendar year.
    - (1) The excursion does not exceed 50 degrees Fahrenheit.

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(2) The duration of the excursion does not exceed 24 hours. Two or more excursions greater than 15 minutes in duration occurring during the same 24-hour period shall be counted as one excursion toward the 12 excursion limit. (Basis: Regulation 2-1-403)

For each Allowable Temperature Excursion that exceeds 20 degrees Fahrenheit and 15 minutes in duration, the Owner/Operator shall keep sufficient records to demonstrate that they meet the qualifying criteria described above. Records shall be retained for a minimum of five years from the date of entry, and shall be made available to the District upon request. Records shall include at least the following information:

- a. Thermal oxidizer controller set temperature.
  - b. Starting date and time, and duration of each Allowable Temperature Excursion.
  - c. Minimum temperature during each Allowable Temperature Excursion.
  - d. Number of Allowable Temperature Excursions per month, and total number for the current calendar year.
  - e. All strip charts or other temperature records.
- (Basis: Regulation 2-1-403)

8. No later than 30 days after startup, the Owner/Operator shall conduct a BAAQMD approved source test to determine compliance with the NO<sub>x</sub>, CO, and VOC limitations. All source testing shall be done in accordance with the District's Manual of Procedures. The Owner/Operator shall install all necessary source test ports, subject to the approval of the Manager of Source Test in the BAAQMD Technical Services Division. The source test results for NO<sub>x</sub>, CO and VOC shall be submitted to the Manager of Source Test no later than 30 days after completion of the source test. (Basis: Compliance Verification)
9. The Owner/Operator shall limit the total combined influent of wastewater to be treated at anytime by S-194, S-195, S-197 and S-198 to not exceed 3000 gallons per minute. [Basis: Cumulative Increase]
10. A Owner/Operator shall install a flow indicator or equivalent device on the vent stream to the control equipment to ensure that the vapors are being routed to the equipment. [Basis: NSPS]
11. The Owner/Operator shall conduct a quarterly inspection and maintenance program on any atmospheric pressure relief device, pressure-vacuum valve, and appurtenance in vapor service on this source. If a leak greater than 500 ppm is detected by the operator, the leak shall be minimized within 24 hours and repaired within 7 days, and if the leak is detected by the APCO, repaired within 24 hours. [Basis: RACT]
12. Deleted. [Basis: The inspection and maintenance program for fugitive components is covered under Regulation 8, Rule 18.]
13. Deleted. [Basis: The Owner/Operator has replaced the API Separator (S-47) and two dissolved air flotation tanks (S-152 and S-153).]
14. The Owner/Operator shall abate this source by two 700 lb (minimum) carbon canisters in series (A-37) and/or the A-57 Thermal oxidizer at all times when the source is in service, except during inspection, maintenance and wastewater sampling. [Basis: Cumulative Increase]

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15. The Owner/Operator shall limit the total combined non-methane hydrocarbons (NMHC) emissions emitted from A-36, A-37 and A-57 to no more than 15 pounds per day, as averaged over one month. [Basis: Cumulative Increase]
16. The Owner/Operator shall determine the NMHC from the flow rates and NMHC concentrations at the outlets of the second carbon canisters of A-36 and A-37 in accordance with ST-7 of the District's Manual of Procedures Volume IV. The Owner/Operator shall use District approved monitors. NMHC concentration shall be calculated by subtracting the average known methane content of 2500 parts per million (PPM) from the total hydrocarbon analyzer reading measured at the outlets of the second carbon canisters of A-36 and A-37. Alternatively, the methane contents can also be obtained by actual gas samples. When recommissioning A-37 from standby service, A-37 carbon shall be replaced weekly until the continuous VOC monitor on A-37 outlet is operating. [Basis: Cumulative Increase]
17. To demonstrate compliance with Part 15, the Owner/Operator shall maintain the following records in a District approved log. These records shall be kept on site and made available for District inspection for a period of at least 60 months from the date on which a record is made. NMHC emissions from A-57 shall be based upon the results of a District approved source test. NMHC emissions from A-37 shall be based on historic data until A-37 continuous VOC monitor is operating. [Basis: Cumulative Increase]
  - a. Daily NMHC emission rate in pounds per day.
  - b. Daily NMHC emission rate, as averaged over one month, in pounds per day.
  - c. Daily flow rate and outlet NMHC concentration.
  - d. Carbon canister changeout date.
  - e. Total volume of gas recorded between carbon canister changeout.
18. The Owner/Operator shall use a monitoring device that continuously indicates and records the VOC concentration level or reading of organics in the exhaust gases of this abatement device outlet gas stream or inlet and outlet gas stream. [Basis: Cumulative Increase]

Condition# 14318

For Source S-23 Process Oil Furnace

1. The Owner/Operator shall limit the emissions of NMHC from S-23 (Furnace F-401) to no more than 10 lb/day. [Basis: BACT]
2. The Owner/Operator shall limit the emission of NO<sub>x</sub> to no more than 40 ppm averaged over any 8 hour period @ 3% oxygen and dry. [Basis: Cumulative Increase]
3. The Owner/Operator shall continuously monitor the NO<sub>x</sub> and oxygen in accordance with the Manual of Procedures. [Basis: Cumulative Increase]
4. Owner/Operator shall limit the firing of S-23 furnace to at or below 200 x million BTU/Hr (maximum firing rate) heat input for any one hour period and 185 x million BTU/Hr average for a 24 hour period based on the gross heating value of the fuel gas. This 24 hour period shall be midnight to midnight. [Basis: Cumulative Increase]

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5. As per Regulation 10-14, the Owner/Operator shall continuously monitor the hydrogen sulfide and shall limit the hydrogen sulfide to no more than 160 ppm (dry). [Basis: Cumulative Increase, BAAQMD 10-14]
6. The Owner/Operator shall make all data pertaining to (1), (2), (3), (4), above readily accessible to BAAQMD field personnel upon request. [Basis: Compliance Verification through Records]

Condition# 15512

For Source S-1010 Hydrogen Plant

1. The Owner/Operator shall route the precursor organic compounds from the deaerator vents associated with the operation of S-1010 Hydrogen Plant downstream to the S-40 and/or S-41 boilers at all times in which the source is in operation. [RACT]

Condition # 16027

For Source S-237 (SG-1032), Boiler

1. Fugitive Emissions Components: The Owner/Operator shall install all hydrocarbon valves greater than 2 inches as one of the following types: (1) bellows sealed, (2) live loaded, (3) graphitic-packed, (4) teflon packed valves or (5) equivalent. All flanges installed in the piping systems by the Owner/Operator shall be equipped with graphitic-based gaskets, except in services that are not compatible with graphitic material. Asbestos type gaskets shall be used in service where graphitic-based gaskets are not compatible. [[Basis: BACT]
2. Completed.
3. Fuel Gas System: The Owner/Operator shall limit the refinery low-pressure fuel gas to no more than any of the following: (a) 100 ppmv H<sub>2</sub>S, averaged over a 24-hour calendar day and (b) 160 PPM H<sub>2</sub>S, averaged over any 3-hour period. [Basis: Cumulative Increase, BACT, NSPS>
4. Fuel Gas System: Owner/Operator shall limit the refinery low-pressure fuel gas to no more than 51 ppmv of total reduced sulfur, averaged over any consecutive four-quarter period. [Basis: BACT, Contemporaneous offsets for S<sub>02</sub> and PM<sub>10</sub> emissions>
5. Fuel Gas System: The Owner/Operator shall install and operate a District approved continuous gaseous fuel monitor/recorder to determine the H<sub>2</sub>S content and total reduced sulfur content of the refinery low pressure fuel gas prior to combustion in any downstream combustion source including the S-237 Boiler. [Basis: Cumulative Increase]
6. Fuel Gas System: The Owner/Operator shall calculate and record the 24-hour average H<sub>2</sub>S content and total reduced sulfur content of the refinery fuel gas, for determining compliance with Parts number 3 and 4, based on the previous 24 individual hourly averages. On a quarterly basis, the Permit Holder shall report: (a) the



## VI. Permit Conditions

daily fuel consumption at S-237, (b) daily averaged H<sub>2</sub>S content of the refinery fuel gas, (c) daily averaged total reduced sulfur content (d) quarterly daily averaged H<sub>2</sub>S content, (e) quarterly daily averaged total reduced sulfur content and (f) annual averaged total reduced sulfur content using the last four quarters. [Basis: Cumulative Increase]

7. The Owner/Operator shall only fire S-237 Boiler natural gas, LPG/pentane gases or refinery fuel gas. In no case shall any combustion source burn a fuel with a H<sub>2</sub>S concentration exceeding 100 ppmv, averaged over 24 hours (calendar day) or a TRS concentration exceeding 51 ppmv, averaged over any four consecutive quarters. [Basis: Cumulative Increase, Toxics, offsets]

8. The Owner/Operator shall limit total emissions from this combustion source (S-237) including startups and shutdowns, to no more than the following annual limits: [Basis: Cumulative Increase, Offsets>

Pollutant	Annual (tons)
NO <sub>x</sub>	13.278
CO	44.721
SO <sub>2</sub>	8.644
PM <sub>10</sub>	3.132
POC	2.881

Combustion emissions shall be calculated using the following emission factors:

NO <sub>x</sub> :	Summation of daily emissions using CEM data
CO	0.0200 lb/MMBtu
SO <sub>2</sub>	0.0069 lb/MMBtu
PM <sub>10</sub>	0.0025 lb/MMBtu
POC	0.0023 lb/MMBtu.

9. The Owner/Operator shall equip the S-237 Boiler with a District approved continuous fuel flow monitor and recorder in order to determine fuel consumption. (This is a parametric monitor as defined in Regulation 1-238.) [Basis: Monitoring and Records>
10. Except for no more than 3 minutes in any hour, the Owner/Operator shall limit the Visible emissions from the S-237 Boiler to at or below Ringelmann No. 1.0 or 20% opacity, as required by Regulation 6. [BAAQMD 6-301]
11. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to boiler dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24-hour period does not

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- apply during the initial startup of the Units.S-237 Boiler. [Basis: Cumulative Increase, offsets, operational allowances>
12. Except during startup and shutdown, the Owner/Operator shall limit the emissions of nitrogen oxides from the S-237 to no more than 9 ppmv, dry, corrected to 3% oxygen, (0.0106 lb/MMBtu) averaged over any 3 consecutive hours. [Basis: BACT, offsets>
  13. For the S-237 Boiler, the Owner/Operator shall limit the CO emissions to no more than 50 ppmv, dry, corrected to 3% oxygen, (0.0357 lb/MMBtu) averaged over 8 hours, except during periods of startup and shutdown. Demonstration of compliance will be based on source test data [Basis: BACT]
  14. The Owner/Operator shall abate S-237 at all times by A-58 Selective Catalytic Reduction System when it is in operation. Operation of the A-58 Selective Catalytic System shall be in accordance with manufacturer's recommended procedures during periods of operation. [Basis: BACT]
  15. Except during periods of startup and shutdown, Owner/Operator shall limit the ammonia emissions (ammonia slip) from the SCR unit (A-58) to no more than 10 ppmv of ammonia, dry, corrected to 3% oxygen, averaged over any consecutive 3-hour period. Demonstration of compliance shall be based on source test data. [Basis: Cumulative Increase, Monitoring, Toxics]
  16. The Owner/Operator shall install, calibrate, maintain, and operate a District-approved continuous emission monitor and recorder for NO<sub>x</sub> and O<sub>2</sub>. [Basis: Monitoring and Records>
  17. Completed.

### Throughput Limitation

18. The Owner/Operator shall limit the total combined heat input for S-237 to no more than 2,505,360 million BTUs (HHV) in any 365 consecutive day period. [Basis: Cumulative Increase, Offsets>
19. Owner/Operator shall limit the The total combined heat input for S-237 shall not exceed 7560 million BTUs in any calendar day period. [Basis: Cumulative Increase>
20. Deleted. (Basis: same as Condition 16386, Part 1)
21. Deleted. (Basis: same as Condition 16386, Parts 2 and 3)
22. The Owner/Operator shall conduct a District-approved source test on an annual basis on Sources S-237 to demonstrate compliance with the limit in part 13 of this condition. The test

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results shall be provided to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 2-6-503]

Condition 16186 is obsolete. The source no longer exists.

Condition # 16386

For Sources S-37, (SG-702), Waste Heat Boiler, S-45, (GT-702) Process Gas Turbine

1. Except during startup and shutdown, the Owner/Operator shall limit the combined NO<sub>x</sub> emissions from the S-45 Gas Turbine and the S-37 Steam Generator, when operated together, to no more than 9 ppmv, dry, @ 15% oxygen, in any consecutive three hour averaging period. <Permanency of Contemporaneous Banking Credit, Offsets>  
Deleted. [Basis: NO<sub>x</sub> limitation is covered by Regulation 9, Rule 9.]
3. Except during startup and shutdown, the Owner/Operator shall abate the emissions from the S-45 gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is operational. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
4. The Owner/Operator shall abate the emissions from the S-37 Steam Generator Gas Turbine using the A-51 Selective Catalyst Reduction System at all times in which it is in operation, except for the following: [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
  - A. During periods of startups and shutdowns.
  - B. Infrequent periods not to exceed 45 days in any consecutive three year period.
5. For startups and shutdowns, the Owner/Operator shall not exceed 24 consecutive hours. The 24-consecutive-hour startup period is in addition to dryout/warmup periods that are limited to not exceed 72 consecutive hours. The 24 hour period does not apply during the initial startup of the units. [Basis: Permanency of Contemporaneous Banking Credit, Offsets>
6. The Owner/Operator shall install and operate a continuous emissions monitor (CEM) to continuously monitor the nitrogen oxides (NO<sub>x</sub>) emissions from this combined system consisting of S-45 and S-37. [Basis: Regulation 9, Rule 9, enforceability of contemporaneous banking credit, offsets>
7. The Owner/Operator shall limit the total emissions of nitrogen oxides (NO<sub>x</sub>) emissions for S-37 Steam Generator to no more than 23.851 tons per calendar

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year. [Basis: Permanency of Actual Emissions  
Reduction for S-237>

8. To demonstrate compliance with the above conditions, the Owner/Operator shall maintain the following records in a District approved log for S-37. These records shall be kept on site and made available for District inspection for a minimum period of five years from date of first entry. [Basis: Banked POC credits requirements>
  - a. Daily usage of refinery fuel gas at S-37, in cubic feet
  - b. Daily usage of refinery fuel gas at S-45, in cubic feet
  - c. Daily HHV of refinery fuel gas
  - d. Daily mass emissions from the combined exhaust, as measured by the CEM
  - e. Computation of daily emissions from S-37. Measured emissions shall be attributed based on S-37 actual fuel usage and real-time emission factor based on CEM data
  - f. Computation of monthly and annual mass emissions from S-37
  - g. Days of startup, shutdown and S-37 singular operations.

Condition #17835

For Source S-1027: Light Ends Rail Rack

1. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than 22,500 barrels per day, as averaged over the quarterly period. [Basis: Cumulative Increase]
2. The Owner/Operator of the Light Ends Rail Rack (S-1027) shall handle no more than 8.2125 million barrels of liquefied gases (propanes, butanes, pentanes) in any consecutive four-quarter period. [Basis: Cumulative Increase, Toxics, BACT]
3. The Owner/Operator shall maintain quarterly records in a District-approved log. These records shall be retained for a period of at least five years. The logs shall be kept on site and made available to District staff upon request. [Recordkeeping]

Condition # 18344

For Source S-1 and S-2

1. Deleted. (Application #3902, 1/02)

## VI. Permit Conditions

2. Deleted. (Application #3902, 1/02)

Condition # 18422

For Source S-239 (TK-1918)

1. The Owner/Operator shall limit the total liquid throughput at source S-239 to no more than 102,000 gallons during any consecutive twelve month period. (Basis: Cumulative Increase)
2. The Owner/Operator shall equip the S-239 with a submerged fill pipe. (Basis: Regulation 8-5-301)
3. In order to demonstrate compliance with the part 1, the owner/operator of tank S-239 shall either maintain the total monthly throughput of each material stored, summarized on a consecutive 12-month basis in a District approved log, or shall be able to generate these records on short notice. These records shall be kept on site and made available for District inspection for a period of 60 months from the date that the record was made. (Basis: Cumulative Increase)

Condition # 18744

1. The Owner/Operator shall fire the S-243 emergency generator exclusively on diesel fuel having a sulfur content no greater than 0.05%, by weight. The sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]
2. The Owner/Operator shall only operate S-243 to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year. Operation while mitigating emergency conditions is unlimited. {Basis: Regulation 9-8-330, Cumulative increase]
3. "Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231]
  - a. Loss of regular natural gas supply
  - b. Failure of regular electric power supply
  - c. Flood mitigation
  - d. Sewage overflow mitigation
  - e. Fire
  - f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor

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4. "Reliability-related activities" is defined as any of the following:

[Basis: Regulation 9-8-232]

- a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
- b. Operation of an emergency standby engine during maintenance of a primary motor

5. The Owner/Operator shall equip S-243 with either:

[Basis: Regulation 9-8-530]

- a. A non-resettable totalizing meter that measures the hours of operation for the engine

OR

- b. A non-resettable fuel usage meter (61 gallons of fuel shall be assumed to be equivalent to 1 hour of reliability-related operation)

6. The Owner/Operator shall maintain the following monthly records in a District-approved log for at least 5 years for S-243 and shall be made available for District inspection upon request:

[Basis: Regulations 9-8-530, 1-441]

- a. Total hours of operation
- b. Hours of operation under emergency conditions and a description of the nature of the each emergency condition
- c. Fuel usage

Condition # 18748

For Sources S-240, S-241 and S-242 Emergency Generators

1. The Owner/Operator shall fire the engines for emergency generators S-240, S-241, and S-242 exclusively on diesel fuel having a sulfur content no greater than 0.05% by weight. The

## VI. Permit Conditions

- sulfur content of the fuel oil shall be certified by the fuel oil vendor. [Basis: Cumulative Increase]
- "Emergency Conditions" is defined as any of the following: [Basis: Regulation 9-8-231]
- a. Loss of regular natural gas supply
  - b. Failure of regular electric power supply
  - c. Flood mitigation
  - d. Sewage overflow mitigation
  - e. Fire
  - f. Failure of a primary motor, but only for such time as needed to repair or replace the primary motor
2. The Owner/Operator shall only operate the S-240, S-241, and S-242 to mitigate emergency conditions or for reliability-related activities. Operation for reliability-related activities shall not exceed 100 hours in any calendar year at each engine. Operation while mitigating emergency conditions is unlimited.  
[Basis: Regulation 9-8-330, Cumulative Increase]
- "Reliability-related activities" is defined as any of the following:  
[Basis: Regulation 9-8-232]
- a. Operation of an emergency standby engine to test its ability to perform for an emergency use, or
  - b. Operation of an emergency standby engine during maintenance of a primary motor
3. The Owner/Operator shall equip the S-240, S-241, and S-242 with either:  
non-resettable totalizing meter that measures and records the hours of operation for the engine  
OR  
b. a non-resettable fuel usage meter; the following factors shall be used to convert fuel usage to hours of operation:  
S-240: 31 gal/hr  
S-241: 13 gal/hr  
S-242: 39 gal/hr  
[Basis: Regulation 9-8-530]
4. The Owner/Operator shall maintain the following monthly records in a District-approved log for at least 5 years for S-240, S-241, and S-242 and shall be made available for District inspection upon request: [Basis: Regulations 9-8-530, 1-441]
- a. Total hours of operation for each engine
  - b. Hours of operation under emergency conditions for each engine and a description of the nature of each emergency condition
  - c. Fuel usage for each engine

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COND# 18794

APPLICATION 4114; VALERO REFINING COMPANY; PLANT 12626  
CONDITIONS FOR S-1004:

1. Total throughput of Naphtha through Catalytic Reformer shall not exceed the following limits:

- a. 12,739 KB/Year (34.9 KB/D annual average)
- b. 39.8 KB/Day

2. The following monthly records shall be maintained in a District-approved log for at least 5 years for S-1004 and shall be made available for District inspection upon request:

[Basis: Regulations 9-8-530, 1-441]

- a. Daily Maximum Naphtha throughput in KB/D
- b. Daily Average Naphtha throughput in KB/D

Condition 19176

For Sources S-16, S-17, S-18, S-19 Flares (ST-2101AG, ST-1701, ST-2101, ST-2103)  
Mis-numbered. See Condition 20806 for correct condition.

Condition # 19177

### **Definitions:**

APCO	Air Pollution Control Officer.
MOP	Manual of Procedures.
POC	Precursor Organic Compound: Rule 1-233 excepting the non-precursor organic compound



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listed in Rule 1-234.

1-hour period: Any continuous 60-minute period beginning on the hour.

Calendar Day: Any continuous 24-hour period beginning at 12:00 AM or 0000 hours.

Year: Any consecutive twelve-month period of time

Heat Input: All heat inputs refer to the heat input at the higher heating value (HHV) of the fuel, in Btu/scf.

Rolling 3-hour period: Any three-hour period that begins on the hour and does not include start-up or shutdown periods.

Firing Hours: Period of time during which fuel, other than pilot gas, is flowing to a unit, measured in fifteen-minute increments.

MM Btu: million British thermal units

Start-up Mode: The lesser of the first 256 minutes of continuous fuel flow to the Gas Turbine/HRSG after fuel flow is initiated or the period of time from Gas Turbine/HRSG fuel flow initiation until the Gas Turbine/HRSG achieves 60 consecutive minutes of CEM data points in compliance with the emission concentration limits of Parts 18(a) and 18(b) or 19(b) and 19(d).

Shutdown Mode: The 30 minute period of time from non-compliance with any requirement listed in Parts 18(a) and 18(b) or 19(b) and 19(d) involving termination of fuel flow to the Gas Turbine/HRSG.

Corrected Concentration: The concentration of any pollutant (generally NO<sub>x</sub>, CO, or NH<sub>3</sub>) corrected to a standard stack gas oxygen concentration. For emission point P-60 (combined exhaust of S-1030 Gas

## VI. Permit Conditions

Turbine and S-1031 HRSG duct burners) and emission point P-62 (combined exhaust of S-1032 Gas Turbine and S-1033 HRSG duct burners) the standard stack gas oxygen concentration is 15% O<sub>2</sub> by volume on a dry basis.

Commissioning Activities: All testing, adjustment, tuning, and calibration activities recommended by the equipment manufacturers and the construction contractor to insure safe and reliable steady state operation of the gas turbines, heat recovery steam generators, and associated electrical delivery systems.

Commissioning Period: The Period shall commence when all mechanical, electrical, and control systems are installed and individual system start-up has been completed, or when a gas turbine is first fired, whichever occurs first. The period shall terminate when the plant has completed performance testing, is available for commercial operation.

Precursor Organic Compounds (POCs): Any compound of carbon, excluding methane, ethane, carbon monoxide, carbon dioxide, carbonic acid, metallic carbides or carbonates, and ammonium carbonate

CEC CPM: California Energy Commission Compliance Program Manager

Conditions for the Approval of the Authority to Construct and Permit to Operate

1. Completed. (Basis: Banking Certificates have been provided)  
Prior to the issuance of the Authorities to Construct for this Cogeneration project consisting of Phase I and/or Phase II, the Owner/Operator shall provide the following offsets:  
(Basis: NO<sub>x</sub> and POC)  
Phase I (S-1030 and S-1031)  
NO<sub>x</sub>: 13.162TPY from Certificate # 703

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Phase II (S-1032 and S-1033)  
NOx: 18.477 TPY Total  
18.256 TPY NOx from Certificate #703  
0.221 TPY POC for NOx from Certificate #682  
POC: 7.401 TPY POC from Certificate #682

2. For SO<sub>2</sub> emissions offsets, a curtailment group is established as follows: (Basis: SO<sub>2</sub> offsets)  
Curtailment Group:  

Emission Sources	Total Group Baseline
S-237 Steam Boiler SG1032	
S-220 Hot Oil Furnace F 4460	
MTBE Ships	
S-40 Boiler SG2301	
Phase I New GT/HRSG (S-1030 & S-1031)	
Phase II New GT/HRSG (S-1032 & S-1033)	

  - a. The Owner/Operator shall limit the SO<sub>2</sub> emissions from the Curtailment Group to no more than 34.75 TPY for any consecutive 12-month period. Shut down of a source within the group may not change this group annual limit.
  - b. The Owner/Operator shall calculate the emissions using fuel flow meters and the TRS Gas Chromatograph CEMs data for all sources other than MTBE ships. The Owner/Operator shall calculate emissions from MTBE ships using the District approved method established for the ships in Application #6968, Condition #10797.
  - c. The Owner/Operator shall submit a quarterly report of the group emissions to the District, in a District approved format, to document compliance.
3. The Owner/Operator of the proposed power plant (S-1030, S-1031, S-1032, S-1033) shall minimize emissions of carbon monoxide and nitrogen oxides from these sources to the maximum extent possible during the commissioning period.  
Parts 3 through 12 shall only apply during the commissioning period as defined above. Unless otherwise indicated, the remaining conditions shall apply after the commissioning period has ended.
4. At the earliest feasible opportunity, but no later than 30 days after startup, in accordance with the recommendations of the equipment manufacturers and the construction contractor, the Owner/Operator shall tune the Gas Turbine combustors and Heat Recovery Steam Generator duct burners to minimize the emissions of carbon monoxide and nitrogen oxides.
5. At the earliest feasible opportunity, but no later than 30 days after startup, in

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accordance with the recommendations of the equipment manufacturers and the construction contractor, the Owner/Operator shall install, adjust and operate the A-60/A-62 SCR System, and A-61/A-63 CO Oxidation Catalyst System to minimize the emissions of carbon monoxide and nitrogen oxides from S-1030 Gas Turbine and S-1031 Heat Recovery Steam Generator.

6. Coincident with the as-designed operation of A-60/62 SCR System, the Owner/Operator of the Gas Turbines (S-1030 and S-1032) and the HRSG (S-1031 and S-1033) shall comply with the NO<sub>x</sub> and CO emission limitations specified in parts 18(a), 18(b), 19(b) and 19(d).
7. The Owner/Operator shall submit a plan to the District Permit Services Division and the CEC CPM at least four weeks prior to first firing of S-1030 or S-1032 Gas Turbines describing the procedures to be followed during the commissioning of the gas turbine and HRSG. The plan shall include a description of each commissioning activity, the anticipated duration of each activity in hours, and the purpose of the activity. The activities described shall include, but not be limited to, the tuning of the combustors, the installation and operation of the SCR systems and oxidation catalysts, the installation, calibration, and testing of the CO and NO<sub>x</sub> continuous emission monitors, and any activities requiring the firing of the Gas Turbines (S-1030 or S-1032) and HRSGs (S-1031 or S-1033) without abatement by their respective SCR and CO Catalyst Systems.
8. During the commissioning period, the Owner/Operator shall demonstrate compliance with parts 10 through 12 through the use of properly operated and maintained continuous emission monitors and data recorders for the following parameters:
  - firing hours for the gas turbine and HRSG
  - fuel flow rates through the train
  - stack gas nitrogen oxide (and oxygen) emission concentrations at P-60/P-62
  - stack gas carbon monoxide emission concentrations P-60/P-62
  - stack gas SO<sub>2</sub> emission concentrations at P-60/P-62 or fuel TRS/H<sub>2</sub>S concentrations.The Owner/Operator shall record the monitored parameters at least once every 15 minutes (excluding calibration periods as required by the MOP or when the monitored source is not in operation) for the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033). The Owner/Operator shall use District-approved methods to calculate heat input rates, NO<sub>x</sub> mass emission rates, carbon monoxide mass emission rates, SO<sub>x</sub> mass emission rates, and emission concentrations of NO<sub>x</sub>, SO<sub>x</sub>, and CO, summarized for each clock hour and each calendar day. All records shall be retained on site for at least 5 years from the date of entry and made available to District personnel upon request.
9. For the District-approved continuous emission monitors specified in part 8, the Owner/Operator shall install, calibrate, and operate it prior to first firing of the Gas Turbines (S-1030 or S-1032) and Heat Recovery Steam Generator (S-1031 or S-1033). After first

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firing of the turbine, the detection range of these continuous emission monitors shall be adjusted as necessary to accurately measure the resulting range of CO, SO<sub>x</sub>, and NO<sub>x</sub> emission concentrations. The type, specifications, and location of these monitors shall be subject to District review and approval.

10. The Owner/Operator shall limit the total number of firing hours of S-1030/S-1032 Gas Turbines and S-1031/S-1033 Heat Recovery Steam Generators without abatement of nitrogen oxide emissions by A-60/A-62 SCR System and/or A-61/A-63 Oxidation Catalyst System to no more than 250 hours for each turbine and associated HRSG train during the commissioning period. Such operation of S-1030/S-1032 Gas Turbine and S-1031/S-1033 HRSG without abatement shall be limited to discrete commissioning activities that can only be properly executed without the SCR or Oxidation Catalyst Systems fully operational. Upon completion of these activities, the owner/operator shall provide written notice to the District Permit Services and Enforcement Divisions and the unused balance of the 250 firing hours, without abatement, for each turbine train shall expire.
11. The total mass emissions of nitrogen oxides, carbon monoxide, precursor organic compounds, PM<sub>10</sub>, and sulfur dioxide that are emitted by the Gas Turbines (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) during the commissioning period shall accrue towards the consecutive twelve-month emission limitations specified in part 22.
12. The Owner/Operator shall limit the combined pollutant mass emissions from the Gas Turbine (S-1030 and S-1032) and Heat Recovery Steam Generators (S-1031 and S-1033) to no more than the following limits during the commissioning period. These emission limits shall include emissions resulting from the start-up and shutdown of the Gas Turbines and HRSGs (S-1030, S-1031, S-1032 & S-1033).

NO <sub>x</sub> (as NO <sub>2</sub> )	360.34 pounds per calendar day
CO	513.216 pounds per calendar day
POC (as CH <sub>4</sub> )	97.776 pounds per calendar day
PM <sub>10</sub>	224.08 pounds per calendar day
SO <sub>2</sub>	516 pounds per calendar day.

13. The Owner/Operator shall only fire the Gas Turbines (S-1030 and S-1032) and HRSG Duct Burners (S-1031 and S-1033) on refinery fuel and/or natural gas. (Basis: BACT for SO<sub>2</sub> and PM<sub>10</sub>)
14. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) each to no more than 810 MM Btu per hour, averaged over any rolling 3-hour period. The gas turbine in each power train (S-1030 or S-1032) shall not exceed 500 MM Btu/hr, maximum firing rate. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)
15. The Owner/Operator shall limit the combined heat input rate to the power train consisting of a

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- Gas Turbine and its associated HRSG (S-1030 and S-1031 or S-1032 and S-1033) each to no more than 19,440 MM Btu per calendar day. (Basis: Cumulative Increase, Permit Fees, Modification, Offsets)
16. The Owner/Operator shall limit the combined cumulative heat input rate for each power train consisting of Phase I (S-1030 and S-1031) or Phase II (S-1032 and S-1033) to no more than 6,351,000 MM Btu per year. (Basis: Offsets, Cumulative Increase, Modification)
17. The Owner/Operator shall abate the S-1030/S-1032 Gas Turbines and S-1031/S-1033 HRSGs by the properly operated and properly maintained A-60/A-62 Selective Catalytic Reduction (SCR) System and A-61/A-63 CO Oxidation Catalyst System whenever fuel is combusted at those sources and the catalyst bed has reached minimum operating temperature as designated by the manufacturer. (Basis: BACT for NO<sub>x</sub>)
18. The Owner/Operator of the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) when firing natural gas exclusively shall comply with requirements (a) through (f) under all operating scenarios, including duct burner firing mode. Requirements (a) through (f) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)
- 18a. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>) at emission points P-60 or P-62 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over one hour period. (Basis: BACT for NO<sub>x</sub> when firing natural gas)
- 18b. Owner/Operator shall limit the carbon monoxide emissions concentration at P-60 or P-62 to no more than 6 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any rolling 3-clock hour period. (Basis: BACT for CO when firing natural gas)
- 18c. The Owner/Operator shall limit the Ammonia (NH<sub>3</sub>) emission concentrations at P-60 or P-62 to no more than 10 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any rolling 3-hour period. (Basis: Toxics)
- 18d. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH<sub>4</sub>) from P-60 or P-62 to no more than 2.0372 pounds per hour or 0.002515 Lb/MM Btu when firing natural gas throughout each gas turbine/HRSG train. At this time, the operation of the gas turbine (S-1030) alone on natural gas is not allowed due to non-demonstration of compliance during the initial source test [Part 21, operating condition #1]. However, if the Owner/Operator demonstrates, in a subsequent source test, compliance with part 18(d) under operating condition #1, the gas turbine (S-1030) shall be permitted to operate on natural gas when the HRSG (S-1031) is idle. The Owner/Operator shall be allowed the following time to obtain the repeat source test to demonstrate compliance with operating condition #1:
- |                    |                    |
|--------------------|--------------------|
| Scheduled Events   | 2 days (48 hours)  |
| Unscheduled Events | 5 days (120 hours) |

## VI. Permit Conditions

(Basis: BACT for POC when firing natural gas)

- 18e. For sulfur dioxide (SO<sub>2</sub>) emissions, the Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35. (Basis: BACT for SO<sub>2</sub> when firing natural gas)
- 18f. For particulate (PM<sub>10</sub>) emissions, Owner/Operator shall limit the sulfur content in the natural gas to no more than 1.0 grain per 100 scf of natural gas. The Owner/Operator shall use standard pipeline quality natural gas as supplied by PG&E. The Owner/Operator shall demonstrate compliance in accordance with part # 35. (Basis: BACT for PM<sub>10</sub> when firing natural gas)
- 19. The Owner/Operator of the Gas Turbines (S-1030 and S-1032) and HRSGs (S-1031 and S-1033) shall comply with requirements (a) through (h) under all operating scenarios, including duct burner firing mode. Requirements (a) through (h) do not apply during a start-up or shutdown mode. (Basis: BACT, PSD, and Toxic Risk Management Policy)
- 19a. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>), calculated in accordance with District approved methods as NO<sub>2</sub>, at P-60 (the combined exhaust point for the S-1030 Gas Turbine and the S-1031 HRSG after abatement by A-60 SCR System) or P-62 (the combined exhaust point for the S-1032 Gas Turbine and the S-1033 HRSG after abatement by the A-62 SCR system) to no more than 7.29 pounds per clock hour. (Basis: BACT for NO<sub>x</sub>, Offsets)
- 19b. The Owner/Operator shall limit the emissions of nitrogen oxides (NO<sub>x</sub>) at emission points P-60 or P-62 to no more than 2.5 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any 3-clock hour period (Basis: BACT for NO<sub>x</sub>)
- 19c. The Owner/Operator shall limit the carbon monoxide mass emissions at P-60 or P-62 no more than 10.692 pounds per clock hour, averaged over any rolling 3-hour period (Basis: PSD for CO)
- 19d. The Owner/Operator shall limit the carbon monoxide emission concentration at P-60 or P-62 to no more than 6 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any rolling 3-clock hour period. (Basis: BACT for CO)
- 19e. The Owner/Operator shall limit the Ammonia (NH<sub>3</sub>) emission concentrations at P-60 or P-62 to no more than 10 ppmv, on a dry basis, corrected to 15% O<sub>2</sub>, averaged over any rolling 3-hour period. (Basis: Toxics)
- 19f. The Owner/Operator shall limit the precursor organic compound (POC) mass emissions (as CH<sub>4</sub>) at P-60 or P-62 to no more than 2.037 pounds per hour. The Owner/Operator shall demonstrate compliance on source test results. (Basis: BACT)

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- 19g. The Owner/Operator shall limit the sulfur dioxide (SO<sub>2</sub>) mass emissions at P-60 or P-62 to no more than 10.75 pounds per hour (rolling 24 hour average). The Owner/Operator shall limit the sulfur concentrations in the refinery fuel gas to no more than 35 ppm TRS (rolling consecutive 365 day average). (Basis: BACT)  
The Owner/Operator shall limit the Sulfur concentrations in fuel gas fired in S-1030, S-1031, S-1032 and S-1033 to no more than 100 ppm Total Reduced Sulfur (rolling 24 hour average). (Basis: BACT)  
The Owner/Operator shall limit the hydrogen sulfide (H<sub>2</sub>S) concentrations in refinery fuel gas to no more than 160 ppm (rolling consecutive 3-hour average). (Basis: NSPS)
- 19h. The Owner/Operator shall limit the particulate matter (PM<sub>10</sub>) mass emissions from P-60 or P-62 to no more than 4.65 pounds per hour averaged over any consecutive 24-hours nor 1.55 pounds per hour averaged over a calendar year. This limit is subject to adjustment based on the results of source tests, in no case, however, may the adjusted limit exceed 4.65 lb/hr  
Demonstration of compliance will be based on source test results. (Basis: BACT for PM<sub>10</sub>)
20. The Owner/Operator shall limit the sulfuric acid emissions (SAM) from P-60 and P-62 combined to no more than 7 tons in any consecutive four quarters. (Basis: PSD)
21. The Owner/Operator shall commence a District approved initial source test within 60 days of startup to demonstrate compliance with the NO<sub>x</sub>, CO, POC, TRS, SO<sub>2</sub>, PM<sub>10</sub>, NH<sub>3</sub>, and SAM levels in Parts number 18, 19 or 20. For purposes of SAM, the Owner/Operator shall also test for SO<sub>3</sub> and ammonium sulfates. The Owner/Operator shall submit the test results to the District within 60 days of completion of the field test. The test should verify emission compliance at 80% or more of maximum firing on: 1. Gas Turbine firing natural gas only 2. Gas Turbine and HRSG firing natural gas only 3. Gas Turbine firing refinery fuel gas only 4. Gas Turbine and HRSG firing refinery fuel gas only. [Basis: PSD, BACT, Toxic Risk Management Policy ]
22. The Owner/Operator shall limit the total emissions from each power train consisting of Phase I and Phase II (S-1030, S-1031, S-1032 and S-1033) to no more than the following annual limits (365 day rolling average): (Basis: Cumulative Increase, Offsets, PSD)
- 22a. Phase I (S-1030 and S-1031)  
NO<sub>x</sub> - 28.603 TPY (based on CEM data)  
POC – 8.579 TPY (based on Gas Turbine/HRSG POC emissions of 7.983 TPY plus fugitive emissions of 0.596 TPY)  
SO<sub>x</sub> – 15.0 (based on TRS measurement)  
CO - 41.9285 TPY (based on CEM data)  
PM<sub>10</sub> – 6.803 TPY (based on source test results)
- Phase II (S-1032 and S-1033)  
NO<sub>x</sub> - 28.603 TPY (based on CEM data)  
POC – 8.332 TPY (based on Gas Turbine POC emissions of 7.983 TPY plus fugitive



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emissions of 0.349 TPY)  
SO<sub>x</sub> – 15.0 (based on TRS measurement)  
CO - 41.9285 TPY (based on CEM data)  
PM<sub>10</sub> – 6.803 TPY (based on source test results).

- 22b. The PM<sub>10</sub> emissions may be adjusted based on source test results for S-1030, S-1031, S-1032 and S-1033) if the particulate emission rate exceeds the assumed level. In no case shall the adjustment when added to the assumed level for Phase I exceed a total of 10.919 tons per year of PM<sub>10</sub> emissions. This allowance is based only on the construction of Phase I. If Phase II is constructed, the adjustment when added to the assumed level in Phase I and Phase II, including PM<sub>10</sub> emissions from the exempt wet cooling tower, shall not exceed a project total of 15.477 tons per year of PM<sub>10</sub>. The Cogeneration project increase in PM<sub>10</sub> is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM<sub>10</sub> beyond the allowable level. (Basis: Cumulative Increase, Offsets)
- 22c. The PM<sub>10</sub> emissions may be adjusted based on the use of recycled water in the exempt wet cooling tower instead of fresh water. In no case shall the adjustment when added to the assumed PM<sub>10</sub> level on fresh water exceed the total of 3.8 tons per year for the wet cooling tower (restricted to toxic risk values). This adjustment along with the allowable adjustment in Part 22(b) shall not exceed a combined total of 10.919 tons/year in Phase I or 15.477 tons/year for both phases. The Cogeneration project increase in PM<sub>10</sub> is limited to the available offsets for the proposed project, i.e. the contemporaneous emission reductions from the shutting down of three boilers (S-38, S-39 and S-41). The owner shall submit a new application for any increase in PM<sub>10</sub> beyond the allowable level. (Basis: Cumulative Increase, Offsets)
- 22d. The Owner/Operator shall prepare an annual calendar-year report and submit it to the District documenting compliance with these annual limitations on mass emissions. The Owner/Operator shall submit the report to the District no later than 60 days after the close of the calendar year. (Basis: Compliance Monitoring)
23. To demonstrate compliance with parts 19(f), 19(g), 19(h), 20 and parts of 22, the Owner/Operator shall calculate and record on a daily basis, the Precursor Organic Compound (POC) mass emissions, Fine Particulate Matter (PM<sub>10</sub>) mass emissions (including condensable particulate matter), Sulfuric Acid Mist (SAM) and Sulfur Dioxide (SO<sub>2</sub>) mass emissions from each power train. The Owner/Operator shall use the actual Heat Input Rates and District-approved emission factors to calculate these emissions. The calculated emissions shall be presented as follows:

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- (a) For each calendar day, the Owner/Operator shall summarize the POC, PM10, SAM and SO2 emissions for the combined power train: [Gas Turbine (S-1030)/HRSG (S-1031)] and/or [Gas Turbine (S-1032)/HRSG (S-1033)]
  - (b) On a daily basis, the 365 day rolling average cumulative total POC, PM10, SAM and SO2 mass emissions, for both power trains: Gas Turbine (S-1030)/HRSG (S-1031) and/or Gas Turbine (S-1032)/HRSG (S-1033). [Basis: Offsets, PSD, Cumulative Increase]
24. The Owner/Operator shall obtain approval for all source test procedures from the District's Source Test Section prior to conducting any tests. The Owner/Operator shall comply with all applicable testing requirements for continuous emission monitors as specified in Volume V of the District's Manual of Procedures. The owner/operator shall notify the District's Source Test Section in writing of the source test protocols and projected test dates at least 7 days prior to the testing date(s). As indicated above, the Owner/Operator shall measure the contribution of condensable PM (back half) to the total PM10 emissions. However, the Owner/Operator may propose alternative measuring techniques to measure condensable PM such as the use of a dilution tunnel or other appropriate method used to capture semi-volatile organic compounds. Source test results shall be submitted to the District within 60 days of conducting the tests. [Basis: Offsets, PSD, Cumulative Increase]
25. The Owner/Operator shall submit all reports (including, but not limited to monthly CEM reports, monitor breakdown reports, emission excess reports, equipment breakdown reports, calculated compliance records, etc.) as required by District Rules or Regulations or through permit conditions, and in accordance with all procedures and time limits specified in the Rule, Regulation, Manual of Procedures, or Enforcement Division Policies & Procedures Manual. (Basis: Regulation 2-6-502)
26. The Owner/Operator shall maintain all records and reports on site for a minimum of 5 years. These records shall include but are not limited to: continuous monitoring records (firing hours, fuel flows, emission rates, monitor excesses, breakdowns, etc.), source test and analytical records, natural gas sulfur content analysis results, emission calculation records, records of plant upsets and related incidents. The length of time, description and quantity of excess emissions associated with breakdowns shall be included in the recordkeeping requirements. The owner/operator shall make all records and reports available to District and the CEC CPM staff upon request. (Basis: Regulation 2-6-501)
27. The Owner/Operator shall notify the District of any violations of these permit conditions consistent with the requirements of the Title V permit (Basis: Regulation

## VI. Permit Conditions

- 2-1-403)
28. The Owner/Operator shall have a stack height for emission points P-60 and P-62 each at least 80 feet above grade level at the stack base. (Basis: PSD, TRMP)
  29. The Owner/Operator shall provide adequate stack sampling ports and platforms to enable the performance of source testing. The location and configuration of the stack sampling ports shall be subject to BAAQMD review and approval. (Basis: Regulation 1-501)
  30. Within 180 days of the issuance of the Authority to Construct, the Owner/Operator shall contact the BAAQMD Technical Services Division regarding requirements for the continuous monitors, sampling ports, platforms, and source tests required. All source testing and monitoring shall be conducted in accordance with the BAAQMD Manual of Procedures. (Basis: Regulation 1-501)
  31. For the startup period for the Gas Turbines/HRSGs, the Owner/Operator shall limit the startup period to no more than the period defined in the Startup Mode. [Basis: Cumulative Increase, Toxics]
  32. Unwarranted. [Basis: Cogeneration plant has been incorporated into the Title V permit. The condition to submit an application for a significant revision of the Title V permit to include the Cogeneration facility is no longer needed.]
  33. Pursuant to 40 CFR Part 72.30(b)(2)(ii) of the Federal Acid Rain Program, the Owner/Operator of the Valero Power Plant shall not operate Phase II of the cogeneration project until either: 1) a Title IV Operating Permit has been issued; 2) 24 months after a Title IV Operating Permit Application has been submitted, whichever is earlier. (Basis: Regulation 2, Rule 7)
  34. The Owner/Operator of the Cogeneration project shall comply with the continuous emission monitoring requirements of 40 CFR Part 75. (Basis: Regulation 2, Rule 7)
  35. The Owner/Operator shall install and operate a District approved continuous refinery fuel gas fuel monitor/recorder to determine the H<sub>2</sub>S content and total reduced sulfur content of the refinery fuel gas and natural gas prior to operation of the Cogeneration project (S-1030, S-1031, S-1032 and S-1033). This does not include pilot gas. (Basis: Refinery fuel gas and natural gas monitoring for SO<sub>2</sub>, BACT)
  36. The Owner/Operator shall record the rolling consecutive 3-hour average totaled reduced sulfur content and H<sub>2</sub>S content of the refinery fuel gas. On a quarterly basis, the owner shall report:
    - (a) the daily fuel consumption,
    - (b) hourly H<sub>2</sub>S content (as averaged over 3 consecutive hours) of the refinery fuel gas,
    - (c) hourly total reduced sulfur content (as averaged over 24 consecutive hours),
    - (d) quarterly daily averaged H<sub>2</sub>S content
    - (e) quarterly daily averaged total reduced sulfur content, and

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- (f) annual averaged reduced sulfur content using the last four quarters.  
The report shall be sent to the District's Director of Compliance and Enforcement, and the Manager of the Permit Evaluation Section no later than 60 days after the end of the quarter.  
[Basis: BACT, Offsets, Cumulative Increase]
37. The Owner/Operator shall equip the four sources (S-1030, S-1031, S-1032 and S-1033) with a District approved continuous fuel flow monitor and recorder in order to determine the fuel consumption. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]
38. The Owner/Operator shall install, calibrate, maintain and operate a District-approved continuous emission monitor and recorder for NO<sub>x</sub>, CO and O<sub>2</sub>. [Basis: BACT, Offsets, Cumulative Increase, Monitoring]
39. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with 19 (f) for POC and 19 (h) for PM<sub>10</sub>. The Owner/Operator shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: BACT]
40. The Owner/Operator shall conduct a quarterly source test to demonstrate compliance with part 20 for Sulfuric Acid Mist (SAM). The testing shall also include testing for SO<sub>2</sub>, SO<sub>3</sub>, SAM and ammonium sulfates. The Owner/Operator shall conduct the tests in accordance with protocols approved in advance by the District. After acquiring one year of source test data on these units, the District may switch to annual source testing if test variability is low. [Basis: Cumulative Increase]
41. The Owner/Operator shall equip all hydrocarbon control valves installed as part of the Cogeneration Project in Phase I and Phase II with live loaded packing systems and polished stems, or equivalent. (Basis: Cumulative Increase Offsets)
42. Deleted. [Basis: Inspection of hydrocarbon valves covered by Regulation 8, Rule 18.]
43. The Owner/Operator shall equip all connectors installed in the piping systems as a result of Phase I or Phase II of the Cogeneration project with graphitic-based gaskets unless the service requirements prevent this material. Any connector found to be leaking in excess of 100 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, offsets, Cumulative Increase)
44. The Owner/Operator shall equip all new hydrocarbon centrifugal compressors installed as part of Phase I or Phase II of the Cogeneration project with "wet" dual mechanical seals with a heavy liquid barrier fluid, or dual dry gas mechanical seals buffered with inert gas. All compressors shall be inspected and repaired in accordance with District Regulation 8, Rule 18.

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- All compressors found to leaking in excess of 500 ppm shall be subject to the leak repair provisions of Regulation 8, Rule 18. (Basis: RACT, Offsets, Cumulative Increase)
45. Deleted. (Basis: New fugitive equipment in organic service has been integrated into the owner's fugitive equipment monitoring and repair program and meets the requirements of District Regulation 8-18.)
46. The Owner/Operator of the Cogeneration project consisting of S-1030, S-1031, S-1032, S-1033 shall include the following gas fittings: no more than 600 valves, 1800 connectors and 4 compressors The annual mass limit for POC (Part number 22) and the offsets required may be adjusted based on final fugitive component count. Any additional POC offsets required due to a larger fugitive component count will need to be provided prior to permit issuance. [Basis: Cumulative Increase, Offsets]
47. Deleted. (Basis: The S-38 and S-39 steam boilers have been completely shutdown.)
48. The Owner/Operator shall completely shutdown the S-41 steam boiler no later than 90 days after startup of the S-1032 and S-1033 power train. The Owner/Operator shall enter into the record log the date the boiler was shutdown. (Basis: offsets)

### **Temporary Condition for Phase I: Expires after the first 36 hours of Commissioning**

49. Deleted. (Basis: Phase I commissioning period has ended.)

### **Condition 19329 (Alternative Compliance Plan)**

**For S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30 through S-33, S-34, S-35, S-40, S-41, S-173 and S-220**

1. The affected sources making up this Alternative Compliance Plan shall not exceed the following maximum hourly firing rates: (Basis: Regulation 2-9-303.4.1, Cumulative Increase)

Valero Refining Company (Plant # B2626)

S-7 Pipestill Hydrofiner Furnace: F-103, 53 MMBtu/Hr

S-20 Naphtha Hydrofiner Furnace: F-104, 62 MMBtu/Hr

S-21 Hydrogen Reforming Furnace: F-301, 614 MMBtu/Hr

S-22 Hydrogen Reforming Furnace: F-351, 614 MMBtu/Hr

S-23 HCU Recycle Gas Furnace: F-401, 200 MMBtu/Hr

S-24 Cat Feed Hydrofiner Treat Gas Furnace: F-601, 33 MMBtu/Hr

S-25 Fluid Catalytic Cracker Unit: F-701, 230 MMBtu/Hr

S-26 Cat Naphtha Hydrofiner Furnace: F-801, 33 MMBtu/Hr

S-30- S-S33 Power former Furnace: F-2901 thru 2904, 463 MMBtu/Hr

S-34 Powerformer Regenerator Furnace: F-2905, 74 MMBtu/Hr

## VI. Permit Conditions

S-35 Powerformer Reactivation Furnace: F-2906, 14 MMBtu/Hr  
S-40 Utility Package Boiler: SG-2301, 218 MMBtu/Hr  
S-41 Utility Package Boiler: SG-2301, 218 MMBtu/Hr  
S-173 Coker Steam Superheat Furnace: F-902, 20 MMBtu/Hr  
S-220 MRU Hot Oil Furnace: F-4460, 351 MMBtu/Hr

Valero Asphalt Plant (Plant # B3193)

S-19 Vacuum Heater: H-1, 40 MMBtu/Hr (from 33 MMBtu/Hr 4/03, AN 7023)

S-20 Steam Boiler: H-2A, 15 MMBtu/Hr

S-21 Steam Boiler: H-2B, 15 MMBtu/Hr

2. The applicant shall submit quarterly reports and an annual report (July 1 to June 30) of their ACP activity no later than 30 days after the close of the specified period. (Basis: Regulation 2-9-303.3)
3. The applicant shall submit all necessary documents to the District to review and approve (or deny) the Alternative Compliance Plan. These documents in support of continuing the ACP shall be submitted no later than 30 days after the close of the calendar year. (Basis: Regulation 2-9-303.3)
4. The applicant shall maintain all records required in ~~condition~~parts #2 and #3 for a period of at least 5 years from the date of such record. These records shall be made available to District staff upon request. (Basis: ~~Record-keeping~~ Regulation 2-9-303.3)

Condition 19466

1. The Owner/Operator shall conduct an annual District-approved source test on the S-1 and S-2 Claus Units to demonstrate that 95% of the H<sub>2</sub>S in the refinery fuel gas is removed and recovered on a refinery-wide basis and 95% of the H<sub>2</sub>S in the process water streams is removed and recovered on a refinery-wide basis AND 95% of the ammonia in the process water stream is removed. The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. The test shall include sampling of the inlet and outlet of the fuel gas scrubber and sour water stripper towers. [Basis: Regulation 9-1-313.2]
- 2a. Deleted. (Basis: S-188 vents to the refinery fuel gas system).
- 2b. Deleted. (Basis: S-189 vents to the refinery fuel gas system).

## VI. Permit Conditions

- 2c. The Owner/Operator shall conduct an annual District-approved source test on the S-160, Seal Oil Sparger, to demonstrate compliance with Regulation 8-2-301. The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 2-6-503]
3. The Owner/Operator shall monitor and record on a monthly basis the visible emissions from Sources S-1, S-2, S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-301 (Ringlemann 1 or 20% opacity). These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-301]
4. The owner/operator shall notify the District in writing by fax or email no less than three calendar days in advance of any scheduled startup or shutdown of any process unit and as soon as feasible for any unscheduled startup or shutdown of a process unit, but no later than 48 hours after the unscheduled startup/shutdown. The notification shall be sent in writing by fax or email to the Director of Enforcement and Compliance. The requirement is not federally enforceable. [Regulation 2-1-403]
5. The Owner/Operator shall abate the emissions from the S-3 and S-4, CO Boilers, by at least four of the five A-1 through A-5 Electrostatic Precipitators and the Owner/Operator shall exhaust those emissions through the main stack (P-1). [Basis: Regulation 6-301 and Regulation 6-304].
6. The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-310]
7. The Owner/Operator shall perform an annual source test on Sources S-8, S-10, S-11, S-12, S-160, S-176, S-232, S-233 and S-237 to demonstrate compliance with Regulation 6-310 (outlet grain loading no greater than 0.15 grain/dscf). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-310]

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8. The Owner/Operator shall perform annually a source test on S-1 and S-2 to determine compliance with Regulation 6-330 (Outlet grain loading not to exceed 0.08 grain/dscf of SO<sub>3</sub> and H<sub>2</sub>SO<sub>4</sub>). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-330]
9. The Owner/Operator shall perform an annual source test on Sources S-5 and S-6 to demonstrate compliance with Regulation 6-311 (PM mass emissions rate not to exceed  $4.10P^{0.67}$  lb/hr). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 6-311]
10. The Owner/Operator shall conduct a District-approved source test on a semi-annual basis on Sources S-7, S-20, S-21, S-22, S-23, S-24, S-25, S-26, S-30, S-31, S-32, S-33, S-34, S-40, S-41 and S-220 and on an annual basis on sources S-35 and S-173 to demonstrate compliance with Regulation 9-10-305 (CO not to exceed 400 ppmv, dry, at 3% O<sub>2</sub>, operating day average). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-10-305]
11. The Owner/Operator shall conduct a semi-annual District-approved source test on Sources S-43, S-44 and S-46 to demonstrate compliance with Regulation 9-9-301.1 (NO<sub>x</sub> not to exceed 55 ppmv, dry, at 15% O<sub>2</sub>, fired on refinery fuel gas). The Owner/Operator shall submit the test results to the District's Compliance and Enforcement Division and the District's Permit Services Division no less than 30 days after the test. These records shall be kept for a period of at least 5 years from date of entry and shall be made available to District staff upon request. [Basis: Regulation 9-9-301.1]
12. The Owner/Operator shall abate the VOC emissions from the S-159 Lube Oil Reservoir using the S-36 Boiler. [Basis: Cumulative Increase]
13. The Owner/Operator shall vent the VOC emissions from S-167 and S-168 Seal Oil Spargers in a closed system to the flare gas recovery header to be returned to the refinery fuel gas system. [Basis: Cumulative Increase]
14. The Owner/Operator shall use the continuous emission monitors required by Regulation 9, Rule



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10, to monitor compliance for all NOx limits at the following sources:

Furnaces: S-3, S-4

Process Furnaces: S-21, S-22, S-23, S-25, S-30, S-31, S-32, S-33, S-220

Steam Generators : S-40, S-41

15. The Owner/Operator shall use the continuous opacity monitors required by Regulation 1-520 to monitor compliance for the opacity limits at the Main Stack for the following sources:

S-5 Fluid Catalytic Cracking Unit, Catalyst Regenerator

S-6 Fluid Coker, Burner

16. To allow sufficient time to prepare test plans, train employees, and install any necessary equipment, the monitoring requirements Parts 1, 2a, 2b, 2c, 3, 6, 7, 8, 9, 10, 11, 14 and 15 are effective April 1, 2004.

Condition #20620:

For Refinery:

1. By October 11, 2004, the owner/operator shall submit a complete application for a significant revision to the Major Facility Review permit to incorporate the limits, compliance options, and monitoring requirements in 40 CFR 63, Subpart UUU, National Emission Standards for Hazardous Air Pollutants for Petroleum Refineries: Catalytic Cracking Units, Catalytic Reforming Units, and Sulfur Recovery Units. (basis: 40 CFR 63, Subpart UUU)
2. By April 11, 2005, the owner/operator shall submit an operation, maintenance and monitoring plan for District review in accordance with 40 CFR 63.1574(f). The plan shall be submitted to the Director of Enforcement. (basis: 40 CFR 63.1574(f))

Condition 20762

For Refinery:

This condition applies to tanks that are exempt from Regulation 8, Rule 5, Storage of Organic Liquids, due to the exemption in Regulation 8-5-117 for storage of organic liquids with a true vapor pressure of less than or equal to 25.8 mm Hg (0.5 psia).

1. Whenever the type of organic liquid in the tank is changed, the owner/operator shall verify that the true vapor pressure at the storage temperature is less than or equal to 25.8 mm Hg

## VI. Permit Conditions

(0.5 psia). The owner/operator shall use Lab Method 28 from Volume III of the District's Manual of Procedures, Determination of the Vapor Pressure of Organic Liquids from Storage Tanks. For materials listed in Table 1 of Regulation 8 Rule 5, the owner/operator may use Table 1 to determine vapor pressure, rather than Lab Method 28. If the results are above 25.8 mm Hg (0.5 psia), the owner/operator shall report non-compliance in accordance with Standard Condition I.F and shall submit an application to the District for a new permit to operate for the tank as quickly as possible. (Basis: Regulation 8-5-117)

2. The results of the testing shall be maintained in a District-approved log for at least five years from the date of the record, and shall be made available to District staff upon request. (Basis: 8-5-117)

Condition # 20806 -----

For S-16, S-17, S-18, S-19 Flares (ST-2101AG, ST-1701, ST-2101, ST-2103)

1. The Owner/Operator shall inspect the Flares, S-16, S-17, S-18, S-19 as soon as any intentional or unintentional release of vent gas is detected which lasts greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S-19, but no later than one hour from the flaring event to check for visible emissions. If any visible emissions are detected, the Owner/Operator shall take corrective action within one hour upon detection of visible emissions, and check for visible emissions after corrective action is taken. [Basis: Regulation 2-6- 409.2]
2. The Owner/Operator shall keep records of all flaring events lasting greater than 15 consecutive minutes using gas flow meters for S-16, S-18 and S- 19, the person performing the visible emissions check, all corrective action taken at S-16, S-17, S- 18, S-19, and all instances which Owner/Operator was unable to correct visible emissions problems. The records shall be retained for at least five (5) years and shall be made available to District personnel upon request. [Basis: 2-6-409.2]
3. The Owner/Operator shall use flares S-16, S-17, S-18, S-19 only to burn process upset gases or fuel gas that is released to it as a result of relief valve leakage or other emergency malfunctions. [Basis: 40 CFR 60.104(a)(1)]
4. The Owner/Operator shall record in a District-approved log every flaring event. This log shall be made available to the District upon request and keep for a period of 5 years from the date of record. [Basis: 40 CFR 60.104(a)(1)]
5. To allow sufficient time to prepare monitoring plans, train employees, and install any necessary equipment, Parts 1 through 4 of this Condition are effective June 1, 2004

## **VI. Permit Conditions**

Condition # 76003

For Source S-108 Pressurized Tank (TK-1801)

1. The Owner/Operator shall limit the rate of filling the tank to a value such that organic emissions are under 4 lb/hr [Basis: Cumulative Increase]

## VII. APPLICABLE LIMITS & COMPLIANCE MONITORING REQUIREMENTS

This section has been included to summarize the applicable emission limits contained in Section IV, Source-Specific Applicable Requirements, of this permit. The following tables show the relationship between each emission limit and the associated compliance monitoring provisions, if any. The monitoring frequency column indicates whether periodic or continuous (C) monitoring is required. For periodic monitoring, the frequency of the monitoring has also been shown, using the following codes: annual (A), semi-annual (SA), quarterly (Q), monthly (M), weekly (W), daily (D), hourly (H), or on an event basis (E). No monitoring (N) has been required if the current applicable rule or regulation does not require monitoring, and the operation is unlikely to deviate from the applicable emission limit based upon the nature of the operation.

**Table VII – Refinery  
Applicable Limits and Compliance Monitoring Requirements  
REFINERY-WIDE APPLICABILITY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Ambient SO <sub>2</sub>	BAAQMD Regulation 9-1-301	Y		Ground level SO <sub>2</sub> concentrations (0.5 ppm for 3 min; 0.25 ppm for 60 min; 0.05 ppm for 24 hrs)	BAAQMD Regulations 9-1-501, 9-1-310.3, AND 9-1-110	C	SO <sub>2</sub> GLM
Ambient H <sub>2</sub> S	BAAQMD Regulation 9-2-301	N		Limitations on H <sub>2</sub> S ground level concentrations	BAAQMD 9-2-501	C	H <sub>2</sub> S GLM
		Y		Refinery MACT Startup, Shutdown, Malfunction Report	40 CFR 63 Subpart CC 63.654(h)	P/SA	Report
		Y		Refinery MACT Periodic Report	40 CFR 63 Subpart CC 63.654(g)	P/SA	Report
		Y		Benzene Waste NESHAPS Annual Report	40 CFR 61 Subpart FF 61.357(d)(2) 61.357(d)(8)	P/A	Report
Benzene in Waste	40 CFR 61 Subpart FF 61.342(e)(2)(i)	Y		Uncontrolled benzene <6 megagrams/year	40 CFR 61 Subpart FF 61.357(d)(5)	P/A	Report
		Y		Benzene Waste NESHAPS Quarterly Report	40 CFR 61 Subpart FF	P/Q	Report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – Refinery**  
**Applicable Limits and Compliance Monitoring Requirements**  
**REFINERY-WIDE APPLICABILITY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
					61.357(d)(6) 61.357(d)(7)		
	40 CFR 61 Subpart FF 61.345(b)	Y		Visual inspection of container covers	40 CFR 61 Subpart FF 61.345(b)	P/Q	Visual Inspection
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Tank degassing control device standard; includes 90% abatement efficiency requirement.	BAAQMD Regulation 8-5-502	P/A	Source test
VOC	None	Y		Determinatin of Applicability	BAAQMD Regulation 8-5-604	P/E	Look up table or sample analysis

**Table VII – A1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 (F1301A) – SULFUR PLANTS, RELATED SOURCES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
	BAAQMD Regulation 9-1-313.2	N		95% of H <sub>2</sub> S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H <sub>2</sub> S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur	BAAQMD Condition # 19466 Part 1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water Stripper Towers

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1 (F1301A) – SULFUR PLANTS, RELATED SOURCES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				shall install a sulfur recovery plant or sulfuric acid plant			
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visual Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub>	BAAQMD Regulation 6-330	Y		0.08 grain/dscf exhaust concentration of SO <sub>3</sub> and/or H <sub>2</sub> SO <sub>4</sub> , expressed as 100% H <sub>2</sub> SO <sub>4</sub>	BAAQMD Condition # 19466 Part 8	P/A	Source Test
H <sub>2</sub> S	SIP 9-1-313.2	Y		Recovery of 95% of H <sub>2</sub> S in refinery fuel gas	BAAQMD Condition # 19466 Part 1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water Stripper Towers

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-2 (F1301B) – SULFUR PLANT, RELATED SOURCES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
	BAAQMD Regulation 9-1-313.2	N		95% of H <sub>2</sub> S in refinery fuel gas is removed and recovered on a refinery-wide basis AND 95% of H <sub>2</sub> S in process water streams is removed and recovered on a refinery-wide basis AND 95% of ammonia in process water streams is removed; refineries which remove the equivalent of 16.5 ton/day or more of elemental sulfur shall install a sulfur recovery plant or sulfuric acid plant	BAAQMD Condition # 19466 Part 1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water Stripper Towers
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visual Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
SO <sub>3</sub> , H <sub>2</sub> SO <sub>4</sub>	BAAQMD Regulation 6-330	Y		0.08 grain/dscf exhaust concentration of SO <sub>3</sub> and/or H <sub>2</sub> SO <sub>4</sub> , expressed as 100% H <sub>2</sub> SO <sub>4</sub>	BAAQMD Condition # 19466 Part 8	P/A	Source Test
H <sub>2</sub> S	SIP 9-1-313.2	Y		Recovery of 95% of H <sub>2</sub> S in refinery fuel gas	BAAQMD Condition # 19466 Part 1	P/A	Inlet/outlet Sampling of the Fuel Gas Scrubber and Sour Water StripTwr

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A3 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-3, S-4 (F101, F102) – CO FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
Fuel Flow	BAAQMD Title V Permit, Table II A	N		46.3 MM therms/year CO+RFG (S-3) 22.7 MM therms/year CO+RFG (S-4)	BAAQMD Regulation 9-10-502.2; BAAQMD Condition #11030 Part 7	C	Fuel Flowmeter
NO <sub>x</sub>	BAAQMD Regulation 9-10-303.1	Y		Federal interim emissions: CO Boiler emissions: 300 ppm NO <sub>x</sub> (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition #19466 Part 14	C	CEM
NO <sub>x</sub>	BAAQMD Regulation 9-10-304.1	N		CO Boiler emissions: 150 ppm (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Regulation 9-10-502.1	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 11030 Part 3	Y		NO <sub>x</sub> emissions from abated sources shall not exceed 150 ppm NO <sub>x</sub> (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 5	C	Exhaust through main stack which has a COM
Opacity	BAAQMD Regulation 6-304	Y		Ringelmann No. 2 for no more than 3 minutes/hour during tube cleaning	BAAQMD Condition # 19466- Part 5	C	Exhaust through main stack which has a COM



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A3 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-3, S-4 (F101, F102) – CO FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII - A4 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 (R702) – FLUID CATALYTIC CRACKING UNIT, CATALYST REGENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 15	C	COM
Opacity	BAAQMD Regulation 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD Regulation 6-501 and Regulation 1-520.5	C	COM
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-502 and Regulation 1-522.8	P/M	Reports
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6	P/A	Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII - A4 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-5 (R702) – FLUID CATALYTIC CRACKING UNIT, CATALYST REGENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9	P/A	Source Test
SO <sub>2</sub>	BAAQMD Regulation 9-1-310.1	Y		SO <sub>2</sub> emission limit for FCCUs and Fluid Cokers (1000 ppmv), Averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation 1-520.5	C	SO <sub>2</sub> CEM

**Table VII – A5 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 (R-902) – FLUID COKER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	40 CFR 63 Subpart CC 63.643(a)(2)	Y		Reduce HAP by 98% or to 20 ppm @ 3% O <sub>2</sub> , Averaged over 1 hour	40 CFR 63 Subpart CC 63.644(a)(3) (large heaters exempt from monitoring)	N	N/A
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 15	C	COM
Opacity	BAAQMD Regulation 6-302	Y		20% opacity for no more than 3 minutes/hour	BAAQMD Regulation 6-501 and Regulation 1-520.6	C	COM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A5 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-6 (R-902) – FLUID COKER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity		Y		Opacity Records and Reports	BAAQMD Regulation 6-502 and Regulation 1-522.8	P/M	Records
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 6	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	BAAQMD Condition # 19466 Part 9	P/A	Source Test
SO <sub>2</sub>	BAAQMD Regulation 9-1-310.1	Y		SO <sub>2</sub> emission limits for FCCUs and fluid cokers (1000 ppmv), averaged over 1 hour	BAAQMD Regulation 9-1-502; BAAQMD Regulation 1-520.6	C	SO <sub>2</sub> CEM

**Table VII – A6.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		4.64 MM therms/year (S-7); 5.43 MM therms/year (S-20); 6.48 MM therms/year (S-34)	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	P/SA  P/D	Source Test  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Regulation 2- 6-503	P/SA	Source Test And Alternative Compliance Plan
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1	C	In-situ analyzer for four corner NO <sub>x</sub> operating envelope
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-7, S-20, S-34, (F103, F104, F2905) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A6.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-24, S-26, S-35 ( F601, F801, F 2906) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		2.89 MM therms/year (S-24, S-26); 1.23 MM therms/year (S-35);	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	P/SA (S-24&26) P/A (S-35)  P/D	Source Test  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-24, S-26, S-35 ( F601, F801, F 2906) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Regulation 2- 6-503	P/SA (S-24&26) P/A (S-35)	Source Test And Alternative Compliance Plan
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1	C (S-24&26) P/A (S-35)	In-situ analyzer for four corner NO <sub>x</sub> operating envelope (S-24&26) Source Test (S-35)
CO	BAAQMD Regulation 9-10-305	N		400 ppmv CO (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA (S-24&26) P/A (S-35)	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A6.3 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-13, S-50 (F702, F901) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Regulation 2-6-503	N	None
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	BAAQMD Regulation 2-6-503	N	None
Fuel Flow	BAAQMD Regulation 9-10-112	N		90,000 therms/year each, during any consecutive 12-month period	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A8 (1) Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-16, S-18 (ST-2101AG, ST-2101) – ACID GAS AND SOUTH FLARES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 1 & 2 (Effective 12/01/04)	P/E	Gas Flow Meters along with Visual Inspection and Records
VOC, HAP		N	12/4/03		BAAQMD Regulation 12-11-501 & 12-11-505	P/E	<u>Flow Rate</u>
		N	9/4/03		BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	<u>Composition</u>
		N	3/4/04		BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	<u>Composition</u>
		N			BAAQMD Regulation 12-11-503 & 12-11-505	P/C	<u>Flame Detector</u>
		N			BAAQMD Regulation 12-11-504 & 12-11-505	P/C	<u>Purge Gas Flow Rate</u>
		N	12/4/03 (if video monitor installed by 1/1/03)		BAAQMD Regulation 12-11-507	P/	<u>1 frame per minute image video recording</u>



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A8 (2) Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-17 ( ST-1701) - FLARES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 1 & 2 (Effective 12/01/04)	P/E	Visual Inspection and Records

**Table VII – A9 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-19 (ST-2103) – NORTH FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 20806 Parts 1 & 2 (Effective 12/01/04)	P/E	Gas Flow Meter along with Visual Inspection and Records
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a)(1)	Y		Fuel gas H <sub>2</sub> S concentration (applies to pilot gas only), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas (pilot gas)
VOC, HAP		N	12/4/03		BAAQMD Regulation 12-11-501 & 12-11-505	P/E	<u>Flow Rate</u>
		N	9/4/03		BAAQMD Regulation 12-11-502.1 & 12-11-505	P/E	<u>Composition</u>

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A9 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-19 (ST-2103) – NORTH FLARE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		N	3/4/04		BAAQMD Regulation 12-11-502.3 & 12-11-505	P/E	<u>Composition</u>
		N			BAAQMD Regulation 12-11-503 & 12-11-505	P/C	<u>Flame Detector</u>
		N			BAAQMD Regulation 12-11-504 & 12-11-505	P/C	<u>Purge Gas Flow Rate</u>
		N	12/4/03 (if video monitor installed by 1/1/03)		BAAQMD Regulation 12-11-507	P/	<u>1 frame per minute image video recording</u>

**Table VII – A10 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-21, S-22 (F301, F351)– PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	Y		400 ppmv CO (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition# 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 10574 Part 32	Y		28 ppmv CO (dry, 3% O <sub>2</sub> ), 8-hour average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A10 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-21, S-22 (F301, F351)– PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Condition # 10574 Part 37	Y		106 MM therms/year combined limit for any consecutive 365 day period	BAAQMD Regulation 9-10-502.2;	C	Fuel Flowmeter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
H <sub>2</sub> S	BAAQMD Condition # 10574 Parts 13 and 17	Y		100 ppmv, averaged over a 24-hr calendar day and 160 ppmv averaged over any 3-hr period	BAAQMD Condition # 10574 Part 15	C	H <sub>2</sub> S analyzer on fuel gas
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM and Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A10 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-21, S-22 (F301, F351)– PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM and Alternative Compliance Plan
NO <sub>x</sub>	BAAQMD Condition # 10574 Part 31	Y		60 ppmv (dry, 3% O <sub>2</sub> ), averaged over consecutive 24-hour period	BAAQMD Condition # 10574 Part 31	C	CEM
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1;	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
Opacity	BAAQMD Condition # 10574 Part 21	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
Total Reduced Sulfur	BAAQMD Condition # 10574 Part 14	Y		51 ppmv of total reduced sulfur, average over any consecutive four quarter period	BAAQMD Condition # 10574 Part 15	C	H <sub>2</sub> S analyzer on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A11 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 14318 Part 4	Y		200 MM Btu/hr; 185 MM Btu/calendar day	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
H <sub>2</sub> S	BAAQMD Condition # 14318 Part 5	Y		Fuel gas H <sub>2</sub> S concentration limited to 160 ppm, rolling 3-hour average	BAAQMD Condition # 14318 Part 5	C	H <sub>2</sub> S analyzer on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A11 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	Y	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM and  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 14318 Part 2	Y		40 ppm NO <sub>x</sub> (dry, 3% O <sub>2</sub> ), 8-hour average	BAAQMD Condition #14318 Part 3	C	CEM
O <sub>2</sub>		N		No limit	BAAQMD Condition # 14318 Part 3 BAAQMD Regulation 9-10-502.1	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A11 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-23 (F401)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A12 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Title V Permit, Table II A	N		20.15 MM therms/year (S-25); 40.56 MM therm/ year combined limit for S-30, S-31, S-32, S-33	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM and  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A12 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-25, S-30, S-31, S-32, S-33 (F701, F2901, F2902, F2903, F2904) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM And Alternative Compliance Plan
O <sub>2</sub>		N		No limit	BAAQMD 9-10-502.1	C	CEM
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ). Operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A13.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-36, S-48, S-56 (SG-701, SG-1031, SG-401) – WASTE HEAT BOILERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grains/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A13.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-43; S-44; S-46 –TURBINES (GT-401; GT-701; GT-1031)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-9-301.1	Y		55 ppmv @ 15% O <sub>2</sub> (dry) for refinery fuel gas, average over any consecutive 3-hour period	BAAQMD Condition # 19466 Part 11	P/SA	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A14.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-37 – WASTE HEAT BOILER (SG-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Condition # 16386 Part 1	Y		9 ppmv @ 15% O <sub>2</sub> (dry), averaged over any consecutive 3-hour period	BAAQMD Condition # 16386 Part 6	C	NO <sub>x</sub> CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A14.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-45 –TURBINE (GT-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-9-301.3;	Y		9 ppmv @ 15% O <sub>2</sub> (dry), averaged over any consecutive 3-hour period	BAAQMD Regulation 9-9-501; BAAQMD Condition # 16386 Part 6	C	NO <sub>x</sub> CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A14.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-45 –TURBINE (GT-702)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A15 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-40 (SG2301) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 9296 Part D3	Y		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Fuel Flow	BAAQMD Condition # 9296 Part D7	Y		218 MM Btu/hour	BAAQMD Regulation 9-10-502.2;	C	Fuel Flowmeter
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD 9-10-502.2;	C	Fuel Flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A15 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-40 (SG2301) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N	7/1/02	Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 9296 Part D2	Y		30 ppmv (dry, 3% O <sub>2</sub> ) averaged over consecutive 12-month period	BAAQMD Regulation 9-10-502.1	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A15 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-40 (SG2301) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
O <sub>2</sub>		Y		No Limit	BAAQMD Regulation 9-10-502.1	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
Total Reduced Sulfur	BAAQMD Condition # 9296 Part D4	Y		51 ppmv of total reduced sulfur, annualized daily average (calendar year)	BAAQMD Condition # 9296 Part D6	P/D	Records

**Table VII – A16 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-41 (SG2302) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Condition # 19466 Part 10	P/SA	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		19.10 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A16 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-41 (SG2302) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average, except for gas burned as a result of process upset or gas burned at flares from relief valve leaks or other emergency malfunctions	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM  Alternative Compliance Plan (Emission calculation using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
O <sub>2</sub>		N		No limit	BAAQMD 9-10-502.1	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A16 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-41 (SG2302) - STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A17 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-42 (F1060) – PROCESS FURNACES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Fuel Flow	BAAQMD Regulation 9-10-112	N		90,000 therms/year during each consecutive 12-month period	BAAQMD 9-10-502.2	C	Fuel Flowmeter
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A18 Combustion  
Applicable Limits and Compliance Monitoring Requirements  
S-173 (F902)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD Regulation 9-10-502 Condition # 19466 Part 10	P/A	Source Test
Fuel Flow	BAAQMD Title V Permit, Table II A	N		1.93 MM therms/year	BAAQMD Regulation 9-10-502.2	C	Fuel Flowmeter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	P/A  P/D	Source Test  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Regulation 9-10-502.1  BAAQMD Condition # 19466 Part 14	P/A	Source Test and Alternative Compliance Plan



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A18 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-173 (F902)– PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Condition # 254 Part 1	Y		40 ppm (dry, 3% O <sub>2</sub> ), average of 3 consecutive 30-minute test runs	BAAQMD Condition # 254 Part 3	P/SA	Source Test
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1	P/A	Source Test
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A

**Table VII – A19 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Regulation 9-10-305	N		400 ppmv (dry, 3% O <sub>2</sub> ), operating day average	BAAQMD 9-10-502 Condition # 19466 Part 10	P/SA	Source Test
CO	BAAQMD Condition # 10574 Part 24	Y		28 ppmv (dry, 3% O <sub>2</sub> ), 8-hour average (0.02 lb/MMBtu)	BAAQMD Condition # 19466 Part 10	P/SA	Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Flow	BAAQMD Condition #10574 Part 29	Y		28.908 MM therms/year	BAAQMD Regulation 9-10-502.2; BAAQMD Condition # 10574 Part 19	C	Fuel Flowmeter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
H <sub>2</sub> S	BAAQMD Condition # 10574 Part 13	Y		100 ppmv H <sub>2</sub> S, averaged over a 24-hour calendar day and 160 ppm H <sub>2</sub> S averaged over 3 hours	BAAQMD Condition # 10574 Part 15	C	H <sub>2</sub> S analyzer on fuel gas
NO <sub>x</sub>	BAAQMD Regulation 9-3-303	Y		125 ppm NO <sub>x</sub> for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD Regulation 9-10-502 monitoring. See permit shield.	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion  
Applicable Limits and Compliance Monitoring Requirements  
S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-10-301	N		Refinery-wide emissions (excluding CO Boilers): 0.033 lb NO <sub>x</sub> / MMBTU, operating day average (Compliance with the ACP pursuant to BAAQMD Regulation 2-9-303 and Condition # 19329 is considered compliance with this limit)	BAAQMD Regulation 9-10-502.1	C  P/D	CEM  Alternative Compliance Plan (Emission calculations using emission factors and fuel meter data)
NO <sub>x</sub>	BAAQMD Regulation 9-10-303	Y		Federal interim emissions: Refinery-wide emissions (excluding CO Boilers): 0.20 lb NO <sub>x</sub> /MMBTU, operating day average	BAAQMD Condition # 19466 Part 14	C	CEM
NO <sub>x</sub>	40 CFR 60 Subpart Db 60.44b(a); 60.44b(e)	Y		Natural gas or diesel: LHRR: 0.10 lb/MMBTU HHRR: 0.20 lb/MMBTU	40 CFR 60.48b(b)(1)	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 10574 Part 23	Y		10 ppmv (dry, 3% O <sub>2</sub> ), 3-hour average (0.0118 lb/MMBtu)	BAAQMD Regulation 9-10-502.1  BAAQMD Condition # 10574 Part 27	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A19 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-220 (F4460) –PROCESS FURNACE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
O <sub>2</sub>		N		No limit	BAAQMD Regulation 9-10-502.1;  BAAQMD Condition # 10574 Part 27	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
PM	BAAQMD Condition # 10574 Part 21	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	None	N	N/A
Total reduced sulfur	BAAQMD Condition # 10574 Part 14	Y		51 ppmv, averaged over any four consecutive quarters	BAAQMD Condition # 10574 Part 15	C	H <sub>2</sub> S analyzer on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A20 Combustion  
Applicable Limits and Compliance Monitoring Requirements  
S-237 (SG1032) –STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 16027–Part 13	Y		50 ppmv (dry, 3% O <sub>2</sub> ), averaged over 8 hours	BAAQMD Condition # 16027 Part 22	P/A	Source Test
Fuel Flow	BAAQMD Condition # 16027 Part 18	Y		25.0536 MM therms/year	BAAQMD Condition # 16027 Part 9	C	Fuel Flowmeter
H <sub>2</sub> S	BAAQMD Condition # 16027 Part 3	Y		100 ppmv H <sub>2</sub> S, averaged over a 24-hour calendar day and 160 ppm H <sub>2</sub> S averaged over any 3-hour period	BAAQMD Condition # 16027 Part 5	C	H <sub>2</sub> S analyzer on fuel gas
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas
NO <sub>x</sub>	40 CFR 60 Subpart Db 60.44b(a); 60.44b(e)	Y		Natural gas or diesel: LHRR: 0.10 lb/MMBTU HHRR: 0.20 lb/MMBTU	40 CFR 60.48b(b)(1)	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 16027 Part 12	Y		9 ppmv (dry, 3% O <sub>2</sub> ), averaged over 3 consecutive hours	BAAQMD Condition # 16027-16	C	CEM
O <sub>2</sub>		N		No limit	BAAQMD Condition # 16027 Part 16	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A20 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-237 (SG1032) –STEAM GENERATOR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspections
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	BAAQMD Condition # 19466 Part 7	P/A	Source Test
PM	BAAQMD Condition # 16027 Part 10	Y		Ringelmann No. 1 or 20% opacity for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspections
Total Reduced Sulfur	BAAQMD Condition # 16027 Part 4	Y		51 ppmv, averaged over any consecutive four-quarter period	BAAQMD Condition # 16027 Part 5	C	H <sub>2</sub> S analyzer on fuel gas

**Table VII – A21 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-240, S-241, S-242 (P-2401C, P-2602, P-2608B) – EMERGENCY STANDBY DIESEL IC ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel $\leq$ 0.5% by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Fuel Sulfur Content	BAAQMD Condition 18748 Part 1	Y		Sulfur content of liquid fuel $\leq$ 0.05% by weight	BAAQMD Condition # 18748 Part 1	P/E	Diesel Fuel Certification by supplier for each lot

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A21 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-240, S-241, S-242 (P-2401C, P-2602, P-2608B) – EMERGENCY STANDBY DIESEL IC**  
**ENGINES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours each per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD Condition 18748 Part 2	N		<100 hours each per calendar year for reliability testing	Condition 18748 Part 3	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD 9-8-330.2	N		<100 hours each per calendar year for reliability testing	BAAQMD Condition # 18748 Part 4	P/M	Records
PM	BAAQMD Regulation 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	BAAQMD Regulation 9-9-301.3	Y		9 ppmv @ 15% O <sub>2</sub> (dry)	BAAQMD Regulation 9-9-501	C	CEM
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
Sulfur	40 CFR 60 Subpart GG 60.333(b)	Y		0.8 percent by weight	40 CFR 60 Subpart GG 60.334(b)(2)	C	TRS CEM on fuel gas
CO	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and 19(d)	Y		Normal Operations: 6 ppmv (dry, 15% O <sub>2</sub> ), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177 Part 19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM
Firing hours	BAAQMD Condition # 19177 Part 10	Y		Commissioning Period: Firing hours without NO <sub>x</sub> and CO abatement <250 hours	BAAQMD Condition # 19177 Part 8	C	Data recorder
Fuel Flow	BAAQMD Condition # 19177 Part 8	Y		Commissioning Period Fuel Flow Requirement	BAAQMD Condition # 19177 Part 8	C	Fuel Flow Meter



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel flow	BAAQMD Condition # 19177 Part 14	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator <19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H <sub>2</sub> S	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas H <sub>2</sub> S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177 Part 35	C	H <sub>2</sub> S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report
NH <sub>3</sub>	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and 19(e)	Y		Normal Operations: 10 ppmv (dry, 15% O <sub>2</sub> ) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial source test
NO <sub>x</sub>	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
NO <sub>x</sub>	BAAQMD Condition # 19177 Part 18(a)	Y		Normal Operations: 2.5 ppmv (dry, 15% O <sub>2</sub> ), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O <sub>2</sub> ), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part- 38	C	CEM

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
PM <sub>10</sub>	BAAQMD Condition # 19177 Part 19(h)	Y		Normal Operations: < 4.65 lb/hour or 1.55 lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH <sub>4</sub> )	BAAQMD Condition # 19177 Part 18(d) for firing natural gas exclusively and Part 19(f)	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
SO <sub>2</sub>	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
SO <sub>2</sub>	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.1 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1030 (GT-4901) –TURBINE (COGEN PHASE I)**  
**S-1032 (GT-4951) - TURBINE (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Sulfuric acid emissions (SAM), including SO <sub>3</sub> and ammonium sulfates	BAAQMD Condition # 19177 Part 20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO <sub>2</sub> & Part 18(f) -PM <sub>10</sub>	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H <sub>2</sub> S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
CO	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 513.216 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
CO	BAAQMD Condition # 19177 Part 18(b) for firing natural gas exclusively and Part 19(d)	Y		Normal Operations: 6 ppmv (dry, 15% O <sub>2</sub> ), averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM
CO	BAAQMD Condition # 19177- Part 19(c)	Y		Normal Operations: < 10.692 lb/hour (any rolling 3-hour period)	BAAQMD Condition # 19177 Part 38	C	CEM
Firing hours	BAAQMD Condition # 19177 Part 10	Y		Commissioning Period: Firing hours without NO <sub>x</sub> and CO abatement <250 hours	BAAQMD Condition # 19177 Part 8	C	Data recorder
Fuel Flow	BAAQMD Condition # 19177 Part 8			Commissioning Period Fuel Flow Requirement	BAAQMD Condition # 19177 Part 8	C	Fuel Flow Meter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel flow	BAAQMD Condition # 19177 Part 14	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 810 MM Btu/hr, (any rolling 3-hour average). Heat rate input of gas turbine < 500 MM Btu/hr	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 15	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 19,400 MM Btu/calendar day.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
Fuel Flow	BAAQMD Condition # 19177 Part 16	Y		Normal Operations: Combined heat rate input of turbine and associated heat recovery steam generator < 6,351,000 MM Btu/year.	BAAQMD Condition # 19177 Part 37	C	Fuel Flow Meter
H <sub>2</sub> S	40 CFR 60 Subpart J 60.104(a) (1)	Y		Fuel gas H <sub>2</sub> S concentration limited to 230 mg/dscm (0.10 gr/dscf), rolling 3-hour average	40 CFR 60 Subpart J 60.105(a)(4)	C	H <sub>2</sub> S analyzer on fuel gas

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
H <sub>2</sub> S	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas H <sub>2</sub> S <160 ppm (rolling consecutive 3-hour average)	BAAQMD Condition # 19177 Part 35	C	H <sub>2</sub> S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition # 19177 Part 36	P/Q	Report
NH <sub>3</sub>	BAAQMD Condition # 19177 Part 18(c) for firing natural gas exclusively and Part 19(e) on refinery fuel gas	Y		Normal Operations: 10 ppmv (dry, 15% O <sub>2</sub> ) averaged over any rolling 3-clock hours	BAAQMD Condition # 19177 Part 21	P/E	Initial Source Test
NO <sub>x</sub>	BAAQMD Regulation 9-3-303			125 ppm NO <sub>x</sub> for gaseous fuels, average of 3 consecutive 30-minute test runs	Monitoring subsumed by BAAQMD Condition #19177 Part 38 monitoring. See permit shield.	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
NO <sub>x</sub>	40 CFR 60 Subpart Db 60.44b(e); 60.44b(l)(1)	Y		Natural gas: 0.20 lb/MMBTU	40 CFR 60 Subpart Db 60.48b(b)(1) (Note: 60.48(e)(2) and (3) are subsumed. See permit shield)	C	CEM
					40 CFR 60 Subpart Db 60.46b(f)(1) and 60.46b(h)(1)	P/E	Initial Performance Test
					40 CFR 60 Subpart Db 60.46b(h)(2)	P/A	Source Test
NO <sub>x</sub>	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 360.34 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
NO <sub>x</sub>	BAAQMD Condition # 19177 Part 18(a)	Y		Normal Operations: 2.5 ppmv (dry, 15% O <sub>2</sub> ), 1-hour average when firing natural gas exclusively	BAAQMD Condition # 19177 Part 38	C	CEM
NO <sub>x</sub>	BAAQMD Condition # 19177 Parts 19(a) & 19(b)	Y		Normal Operations: < 7.29 lb/hour and 2.5 ppmv (dry, 15% O <sub>2</sub> ), averaged over any 3-clock hours	BAAQMD Condition # 19177 Part 38	C	CEM



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-310.3	Y		0.15 grain/dscf @ 6% O <sub>2</sub>	None	N	N/A
PM <sub>10</sub>	BAAQMD Condition # 19177 Part 19(h)	Y		Normal Operations: < 4.65 lb/hour or 1.55 lb/hour averaged over a calendar year with an upward adjustment limit of 4.65 lb/hour based on source test results	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test
POC (as CH <sub>4</sub> )	BAAQMD Condition # 19177 Part 18(d) for firing natural gas exclusively and 19(f) for refinery fuel gas	Y		Normal Operations: < 2.0372 lb/hour (0.002515 lb/MM Btu)	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 39	P/Q, then A if low variability	Source test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A22.2 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1031 (SG-4901)–HEAT RECOVERY STEAM GENERATOR (COGEN PHASE I)**  
**S-1033 (SG-4951) -HEAT RECOVERY STEAM GENERATOR (COGEN PHASE II)**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
SO <sub>2</sub>	BAAQMD Condition # 19177 Part 12	Y		Commissioning Period: < 516 lb/calendar day	BAAQMD Condition # 19177 Part 8	C	CEM and BAAQMD-approved calculation method
SO <sub>2</sub>	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: < 10.75 lb/hour (rolling 24-hour average)	BAAQMD Condition # 19177 Parts 23 and 25	D/A	Emission calculations and annual compliance report
Sulfuric acid emissions (SAM), including SO <sub>3</sub> and ammonium sulfates	BAAQMD Condition # 19177 Part 20	Y		Normal Operations: < 7 tons in any consecutive four quarters	BAAQMD Condition # 19177 Parts 23 and 25	P/D/A	Emission calculations and annual compliance report
					BAAQMD Condition # 19177 Part 40	P/Q, then A if low variability	Source test
Total Reduced Sulfur	BAAQMD Condition # 19177 Part 18(e) - SO <sub>2</sub> & part 18(f) -PM <sub>10</sub>	Y		Normal Operations: Fuel sulfur content < 1.0 grain/100 scf when firing natural gas exclusively	BAAQMD Condition # 19177 Part 35	C	Fuel gas monitor
Total reduced sulfur	BAAQMD Condition # 19177 Part 19(g)	Y		Normal Operations: Refinery fuel gas TRS < 35 ppm (rolling consecutive 365 day average) and fuel gas TRS <100 ppm (rolling 24-hour average)	BAAQMD Condition # 19177 Part 35	C	H <sub>2</sub> S analyzer on fuel gas (excluding pilot gas)
					BAAQMD Condition #19177 Part 36	P/Q	Report

## **VII. Applicable Limits and Compliance Monitoring Requirements**

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – A23 Combustion**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-243 (DG-5101) – EMERGENCY STANDBY DIESEL IC ENGINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Fuel Sulfur Content	BAAQMD Regulation 9-1-304	Y		Sulfur content of liquid fuel $\leq 0.5\%$ by weight	None	P/E	Fuel Oil Certification by supplier for each lot
Fuel Sulfur Content	BAAQMD Condition 18744 Part 1	Y		Sulfur content of liquid fuel $\leq 0.05\%$ by weight	BAAQMD Condition # 18744 Part 1	P/E	Diesel Fuel Certification by supplier for each lot
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD Regulation 9-8-530	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD Condition 18744 Part 2	N		<100 hours per calendar year for reliability testing	Condition 18744 Part 5a	C	Totalizing meter for hours of operation
Hours of Operation	BAAQMD Regulation 9-8-330.2	N		<100 hours per calendar year for reliability testing	BAAQMD Condition # 18744 Part 6	P/M	Records
PM	BAAQMD Regulation 6-303.1	Y		Ringelmann No. 2 for no more than 3 minutes in any hour or equivalent opacity	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B1 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-8, S-10, S-12 (FIL-2701, TK-2303, CYC-1901) – COKE TRANSPORT /CATALYST**  
**RAILCAR UNLOADING/LIME SILO**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

**Table VII – B2 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-11 (TK-2061) - ACTIVATED CARBON BIN**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B2 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-11 (TK-2061) - ACTIVATED CARBON BIN**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Thruput	BAAQMD Condition # 9897 Part 1	Y		Annual throughput limit of 292 tons activated carbon	BAAQMD Condition # 9897 Part 2	P/M	Record

**Table VII – B3 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-174, S-175 (TK-2321, TK-2322) - LIME SLURRY TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

**Table VII – B4 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-176 (TK-2325) - BRINE SATURATOR TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B4 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-176 (TK-2325) - BRINE SATURATOR TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A

**Table VII – B5 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-209 (LD-209) – METHANOL/ETHANOL RAILCAR UNLOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Methanol/ ethanol Deliveries	BAAQMD Condition #9296 Part B4	Y		2920 trucks per rolling 12-month period	BAAQMD Condition #9296 Part B9	P/M	Records

**Table VII – B6 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-232 – ESP FINES VACUUM CONVEYING SYSTEM**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B6 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-232 – ESP FINES VACUUM CONVEYING SYSTEM**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in lb/hr	None	N	N/A
Throughput	BAAQMD Condition # 12727 Part 1	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727 Part 5	P/M	Record



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B7 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-233 – ESP FINES STORAGE BIN**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 3	P/M	Visible Inspection
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition #19466 Part 7	P/A	Source Test
FP	BAAQMD Regulation 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	N/A
Throughput	BAAQMD Condition # 12727 Part 2	Y		Annual throughput limit of 7,300 tons ESP fines	BAAQMD Condition # 12727 Part 5	P/M	Record

**Table VII – B8 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1027 – PENTANE RAILCAR LOADING/UNLOADING RACK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition # 17835 Part 1	Y		Throughput less than 22,500 barrels per day, quarterly average	BAAQMD Condition # 17835 Part 3	P/Q	Record
Throughput	BAAQMD Condition # 17835 Part 2	Y		Throughput less than 8.2125 million barrels in any consecutive 4-quarter period	BAAQMD Condition # 17835 Part 3	P/Q	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – B9.1 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-201 (LD-2051) VACUUM TRUCK LOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	Regulation 8-2-301	C	Continuous HC Analyzer

**Table VII – B9.2 Material Handling**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-202 (LD-2069) VACUUM TRUCK LOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	Regulation 8-2-301	C	Continuous HC Analyzer

**Table VII – C1 Miscellaneous**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-27 – PFR REGENERATION FACILITIES**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C2 Miscellaneous  
Applicable Limits and Compliance Monitoring Requirements  
S-157 – SULFUR STORAGE PIT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – C3 Miscellaneous  
Applicable Limits and Compliance Monitoring Requirements  
S-159 (SG -701/GT-701) – LUBE OIL RESERVOIR**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day total carbon, dry basis	None	N	N/A

**Table VII – C4 Miscellaneous  
Applicable Limits and Compliance Monitoring Requirements  
S-160 (C-1031) - SEAL OIL SPARGER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	BAAQMD Condition # 19466 Part 2c	P/A	Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4 Miscellaneous  
Applicable Limits and Compliance Monitoring Requirements  
S-160 (C-1031) - SEAL OIL SPARGER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	BAAQMD Condition # 19466 Part 7	P/A	Source Test
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	BAAQMD Condition # 19466 Part 2c BAAQMD Regulation 2-6-503	P/A	Source Test

**Table VII – C4 Miscellaneous  
Applicable Limits and Compliance Monitoring Requirements  
S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N (Vented to flare gas stream - BAAQMD Condition # 19466 Part 13)	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N (Vented to flare gas stream - BAAQMD Condition # 19466 Part 13)	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – C4 Miscellaneous**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-167 AND S-168 (C-401, C-2901) - SEAL OIL SPARGERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-2-301	Y		300 ppm and 15 lb/day of total carbon, dry basis	None	N (Vented to fuel gas stream - BAAQMD Condition # 19466 Part 13)	N/A

**Table VII – D Cooling Tower**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-29 – COOLING TOWER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	None
FP	BAAQMD 6-310	Y		0.15 grain per dscf	None	N	None
FP	BAAQMD 6-311	Y		4.10 P <sup>0.67</sup> lb/hr particulate, where P is process weight rate in ton/hr	None	N	None
VOC	BAAQMD 8-2-301	Y		< 300 ppmv C1	None	N	None
Hex Cr	BAAQMD 11-10-302.2	Y		0.15 mg/liter of circulating cooling water	Regulation 11-10-503.2	N	N/A

**Table VII – E1 Fuel Dispensing**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-127 – DIESEL DISPENSING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
				None	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – E2 Fuel Dispensing  
Applicable Limits and Compliance Monitoring Requirements  
S-165 – GASOLINE DISPENSING FACILITY G#6764**

Type of Limit	Emission Limit Citation	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD Regulation 8-7-313.1	Y		Fugitives $\leq 0.42$ lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.2	Y		Spillage $\leq 0.42$ lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	BAAQMD Regulation 8-7-313.3	Y		Liquid Retain + Spitting $\leq 0.42$ lb/1000 gallon	None	N	Use CARB Certified Vapor Recovery System
VOC	None	Y		None	BAAQMD Regulation 8-7-503	P/M	Records
VOC	SIP Regulation 8-7-301.2	Y		95% recovery of gasoline vapors		N	
VOC	BAAQMD Regulation 8-7-301.6 8-7-302.5	Y		Leak free and vapor tight fugitive components	BAAQMD Regulation 8-7-301.13	A	Vapor Tightness Test
VOC	BAAQMD Regulation 8-7-302.14	Y		None	BAAQMD Regulation 8-7-302.14	A	Backpressure Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – F Marine Loading**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-129 – MARINE LOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Dry Dock Leak Test	BAAQMD Condition # 98 Part-9	Y		Vessel leak test at 80% of lowest relief valve set pressure every 3 years in dry dock	BAAQMD Condition # 98 Part-9	P/Every 3 Years	Record
Fugitive Emissions Inspection	BAAQMD Condition # 98 Part-11	Y		Fugitive emissions inspection of all above-deck equipment	BAAQMD Condition # 98 Part-11	P/Q	On-board Method 21 inspection
Leak Test	BAAQMD Condition # 1709 Part-10	Y		<5% leakage rate for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-9	Every 36 months for each vessel loaded more than 2 times/year	Dry-dock pressure test
Leak Test	BAAQMD Condition # 1709 Part-12	Y		10,000 ppm leak test on above-deck equipment for vessels loaded more than 2 times/year	BAAQMD Condition # 1709 Part-12	Every 10 <sup>th</sup> load for each vessel loaded more than 2 times/year	On-board Method 21 inspection
Loading Pressure	BAAQMD Condition # 98 Part-7	Y		Highest vessel lightering pressure < 80% at lowest relief valve set pressure	BAAQMD Condition # 98 Part-8	C	Pressure recorder
Loading Pressure	BAAQMD Condition # 1709 Part-8	Y		Vessel loading pressure <80% of lowest relief valve set pressure	BAAQMD Condition # 1709 Part-6	C	Pressure recorder
PRU Fugitives Survey	BAAQMD Condition # 98 Part-12	Y		PRU fugitive inspection at 20% and 60% of cargo transfer	BAAQMD Condition # 98 Part-12	Each lightering event	On-board Method 21 inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – F Marine Loading**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-129 – MARINE LOADING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition # 98 Part-5	Y		Lightering emissions for crude deliveries to Benicia < 48 tons per year	BAAQMD Condition # 98 Part-2, 98 Part-3, and 98 Part-4	P/Q	Report
VOC	BAAQMD Regulation 8-44-301.1; BAAQMD Condition # 1709 Part-3	Y		POC Emission $\leq$ 5.7 grams per cubic meter (2 lb/1000 barrel) loaded, or	BAAQMD Condition # 1709 Part-5	C	Parametric monitor
VOC	BAAQMD Regulation 8-44.301.2; BAAQMD Condition # 1709 Part-3	Y		Controlled $\geq$ 95% weight	BAAQMD Condition # 1709 Part-5	C	Parametric monitor
VOC	BAAQMD Condition # 1709 Part-1	Y		Annual mass limit for Mogas loading (43.4 tons/yr excluding shore-side fugitive emissions)	BAAQMD Condition # 1709 Part-7	P/Q	Report

**Table VII – G1 Solvent Cleaning**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-177 - SOLVENT CLEANING OPERATIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
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## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – G1 Solvent Cleaning**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-177 - SOLVENT CLEANING OPERATIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
VOC	BAAQMD Regulation 8-16-501	N		Solvent vapor records for solvents with IBP less than 248 F	BAAQMD Regulation 8-16-501 & SIP Regulation 8-16-501	P/M	Records

**Table VII – H1.1 Wastewater**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-151 (WWT2001) – WASTEWATER RETENTION PONDS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene		Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR 61 Subpart FF 61.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation 8-8-601	P/E	MOP, Volume III, Lab Method 33

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H1.2 Wastewater**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-156 (WWT-2000) – WASTEWATER RETENTION PONDS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Benzene		Y		Total Benzene Quantity (TBQ) Quantification for uncontrolled emissions during diversion	40 CFR 61 Subpart FF 61.355(k)(1)	P/E	Sampling / Records
CPS and ISF Bypasses	BAAQMD Regulation 8-8-114	Y		Amount, Duration, Date, Causes, Organic Compound Concentration	BAAQMD Regulation 8-8-601	P/E	MOP, Volume III, Lab Method 33

**Table VII – H2.1 Wastewater**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-154, S-155, S-169, S-238 (BIOX-2053A, BIOX-2053B, BIOX-2001, No TAG) – BIOTREATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		Y		Monitoring of Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61 Subpart FF 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H2.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-214, S-215 – BIOTREATERS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
		Y		Monitoring of Waste Treatment Unit	40 CFR 61.354(a)(2)	C	Treatment system operating parameters
		Y		Sampling of Wastes to Waste Treatment Unit	40 CFR 61.354(b)(2)	P/M	Benzene sampling of each inlet waste stream

**Table VII – H3 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-161 (SEW-2001) – SEWER PIPELINE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
				None	None	N	N/A

**Table VII – H4.1 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-188 (VARIOUS) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	None	N	N/A

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.1 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-188 (VARIOUS) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
None	40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emission point routed to fuel gas system.						

**Table VII – H4.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 13319 Part 2	Y		50 ppm (3% O <sub>2</sub> , dry)	BAAQMD Condition # 13319 Part 8	P/E	Initial Source Test
NMHC Limit	BAAQMD Condition # 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-37) and diversion tanks (A-36) < 15 lb/day, averaged over the month	BAAQMD Condition # 13319 Part 17	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319 Part 18	C	CEM and flow meter
NO <sub>x</sub>	BAAQMD Condition # 13319 Part 1	Y		25 ppm (3% O <sub>2</sub> , dry)	BAAQMD Condition # 13319 Part 8	P/E	Initial Source Test

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H4.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-194, S-195 (2006, 2056) – CPS UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Outlet Temperature	BAAQMD Condition # 13319 Part 4	Y		Thermal Oxidizer: 1400 F minimum outlet temperature	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Regulation 8-8-302.3	Y		Combined collection/destruction efficiency of 95% by weight.	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	None	N	N/A
VOC	40 CFR 61.347(a)(1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61.347(b)	P/Q	Visual Inspection
VOC	40 CFR 61.349(a)(1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR 61.349(a)(2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR 61.354(c)(1)	C	Temperature monitor
VOC	40 CFR 61.349(a)(2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR 61.354(d)	P/D	VOC analyzer
VOC	40 CFR 61.349(f)	Y		No visible openings on CVS and control device	40 CFR 61.349(f)	P/Q	Visual inspection
Waste Water Flow	BAAQMD Condition # 13319 Part 9	Y		3000 gpm	BAAQMD Regulation 2-6-409.2.2	C	Wastewater flow meter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.1 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-189 (VARIOUS) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices	None	N	N/A
None	<b>40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d). Emission point routed to fuel gas system.</b>						

**Table VII – H5.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
CO	BAAQMD Condition # 13319 Part 2	Y		50 ppm (3% O <sub>2</sub> , dry)	BAAQMD Condition # 13319 Part 8	P/E	Initial Source Test
NMHC Limit	BAAQMD Condition # 13319 Part 15	Y		Total combined NMHC emissions from WWTP (A-37) and diversion tanks (A-36) < 15 lb/day, averaged over one month	BAAQMD Condition # 13319 Part 17	P/M	Records
NMHC Monitoring		Y		Monitoring of NMHC mass emissions from carbon adsorption units	BAAQMD Condition # 13319 Part 18	C	CEM and flow meter

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NOx	BAAQMD Condition # 13319 Part 1	Y		25 ppm (3% O <sub>2</sub> , dry)	BAAQMD Condition # 13319 Part 8	P/E	Initial Source Test
Outlet Temperature	BAAQMD Condition # 13319 Part 4	Y		Thermal Oxidizer: Minimum temperature of 1400 F	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	BAAQMD Regulation 8-8-303	Y		Vapor tight gauging and sampling devices.	None	N	N/A
VOC	BAAQMD Regulation 8-8-307.2	Y		Combined collection/destruction efficiency of 70 % by weight.	BAAQMD Condition # 13319 Part 5	C	Temperature measuring device
VOC	40 CFR 61.347(a)(1)(i)(B)	Y		No visible openings on oil-water separator	40 CFR 61.347(b)	P/Q	Visual Inspection
VOC	40 CFR 61.349(a)(1)(ii)(B)	Y		Bypass valves closed and car-sealed	40 CFR 61.354(f)(1)	P/M	Visual inspection
VOC	40 CFR 61.349(a)(2)(i)(A)	Y		Enclosed combustion device > 95% reduction	40 CFR 61.354(c)(1)	C	Temperature monitor
VOC	40 CFR 61.349(a)(2)(ii)	Y		Carbon adsorption recovery: 95% VOC or 98% benzene	40 CFR 61.354(d)	P/D	VOC analyzer
VOC	40 CFR 61.349(f)	Y		No visible openings on CVS and control device	40 CFR 61.349(f)	P/Q	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H5.2 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-197, S-198 (2007, 2057) – ISF UNITS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Waste water Flow	BAAQMD Condition # 13319 Part 9	Y		3000 gpm	BAAQMD 2-6-409.2.2	C	Waste Water Flow Meter

**Table VII – H6 Wastewater  
Applicable Limits and Compliance Monitoring Requirements  
S-192 (TK-2052) – BIOX SLUDGE THICKENER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure no greater than 0.5 psia.	BAAQMD Regulation 8-5-501.1	N	Record



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – H7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-217 , S-218 AND S-219 (TK-791NSD, TK-242SD, TK-131SD) – WASTEWATER**  
**BIOX SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	BAAQMD Regulation 8-8 Organic Compounds—WASTEWATER (OIL/WATER SEPARATORS) Exempt per BAAQMD Regulation 8-8-113						

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 8-18-301	Y		General equipment leak $\leq 100$ ppm or minimize in 24 hours, repair in 7 days	None	P/E	Method 21 Inspection
POC	BAAQMD Regulation 8-18-300	Y		Valves, Pumps, Compressors, Connectors, PRDs, and General Equipment	BAAQMD Regulation 8-18-401.5	P/E (24 hrs after repair/mini- mization)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-302	Y		Valve leak $\leq 100$ ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2 or 8-18-404	Q (footnote a)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-302	Y		Inaccessible Valve leak $\leq 100$ ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.3	P/A	Method 21 Inspection
POC	BAAQMD Regulation 8-18-303	Y		Pump and compressor leak $\leq 500$ ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.2	P/Q	Method 21 Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 8-18-304.2	Y		Connection leak $\leq 100$ ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.6	Every 5 years (footnote b)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-304.2	Y		Connection leak $\leq 100$ ppm or minimize in 24 hours, repair in 7 days	BAAQMD Regulation 8-18-401.1	P/E (90 days after turnaround startup)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak $\leq 500$ ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulations 8-18-401.2 & 8-18-401.7	P/Q	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Inaccessible PRDs leak $< 500$ ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulation 8-18-401.3	P/A	Method 21 Inspection
POC	BAAQMD Regulation 8-18-305	Y		Pressure relief valve leak $\leq 500$ ppm or minimize in 24 hours, repair in 15 days	BAAQMD Regulation 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection
POC	BAAQMD Regulation 8-18-306.1	Y		Valve, pressure relief, pump or compressor must be repaired within 5 years or at the next scheduled turnaround	BAAQMD Regulation 8-18-502.4	P/Q	Report
POC	BAAQMD Regulation 8-18-306.2	Y		Awaiting repair Valves $\leq 0.5\%$ Pressure Relief $\leq 1\%$ Pumps and Compressors $\leq 1\%$	BAAQMD Regulation 8-18-502.4	P/Q	Report
POC	BAAQMD Regulation 8-18-307	Y		Equipment liquid leaks minimize in 24 hours, repair in 7 days	None	P/E	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC		Y		Pumps and Compressors Evidence of Leak	BAAQMD Regulation 8-18-403	P/D	Visual Inspection
POC	BAAQMD Regulation 8-28-303	N		Pressure Relief Devices to Meet Prevention Measures Procedures of BAAQMD 8-28-405.	None	N (one-time, completed)	N/A
POC	BAAQMD Regulation 8-28-304.1	N		Pressure Relief Device with reportable releases in 5-year period.	BAAQMD Regulations 8-28-304.1 & 8-28-405	P/E (90 day after release)  P/E (120 day after release)	PHA & PMP Report  Install tamper-proof indicators
POC	BAAQMD Regulation 8-28-304.2	N		After 2 <sup>nd</sup> release in 5 years; Vent Pressure Relief Devices to an Abatement Device	BAAQMD Regulation 8-28-304.2	P/E (1 year after release)	
POC		N		Pressure Relief Device Release Event Reporting	BAAQMD Regulation 8-28-401	P/E (1 working day and 30 days after release)	Report
POC	BAAQMD Regulation 8-18-305	Y		Pressure Relief Device with reportable releases $\leq 500$ ppm	BAAQMD Regulations 8-28-402 & 8-18-401.8	P/E (5 working days after release)	Method 21 Inspection w/Report
POC	BAAQMD Regulation 11-7-213	N		Pumps leak $\leq 10,000$ ; or 1 <sup>st</sup> repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	BAAQMD Regulation 11-7-213	N		Pump Leak Indicated by Dripping Liquid	BAAQMD Regulation 11-7-401	P/W	Visual Inspection
POC	BAAQMD Regulation 11-7-310.4	N		Pumps under “Delay of Repair” repaired within 6 months.	None	P/E	Records
POC	BAAQMD Regulations 11-7-213 and 11-7-307	N		Valves leak $\leq 10,000$ ; or 1 <sup>st</sup> repair attempt 5 day, repaired 15 days	BAAQMD Regulation 11-7-501	P/M	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Valves leak $< 10,000$ ppm 2 successive months w/o leaking.	BAAQMD Regulation 11-7-307.1	P/Q (if criteria met)	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Valves leak $< 10,000$ ppm 2 successive quarters w/ $< 2\%$ leaking	BAAQMD Regulation 8-18-302	P/SA (if criteria met) (note c)	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Valves leak $< 10,000$ ppm 5 successive quarters w/ $< 2\%$ leaking.	BAAQMD Regulation 11-7-313.3	P/A (if criteria met) (note c)	Method 21 Inspection
POC	BAAQMD Regulation 11-7-213	N		Pressure Relief Valves (liquid), flanges, connectors; leak $\leq 10,000$ ; or 1 <sup>st</sup> repair attempt 5 day, repaired 15 days	BAAQMD Regulation 8-18-304	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection
POC		N		Monitoring and Repair Reporting	BAAQMD Regulation 11-7-403	P/SA	Report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
<b>40 CFR 60; Subpart VV (SOCMI Equipment Leaks of VOC)</b>							
POC	40 CFR 60.482-2 (b)(1)	Y		LL Pump leak < 10,000 ppm or 1 <sup>st</sup> repair attempt 5dy, repaired 15 days, or put on delay of repair list	40 CFR 60.482-2 (a)(1)	P/M	Method 21 Inspection
POC	40 CFR 60.482-2 (b)(2)	Y		LL Pump leak Indicated by dripping liquid	40 CFR 60.482-2 (a)(2)	P/W	Visual Inspection
POC	40 CFR 60.482-2(e)	Y		Pump designated for “No detectable emissions” pursuant to 60.486(e), < 500 ppm	40 CFR 60.482-2(e)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-3(d)	Y		Compressor shall have a sensor to detect failure of seal system, barrier fluid system, or both	40 CFR 60.482-3 (e)(1)	C or P/D	Sensor with audible alarm or checked daily
POC	40 CFR 60.482-3(i)	Y		Compressor designated for “No detectable emissions” pursuant to 60.486(e), < 500 ppm	40 CFR 60.482-3(i)(2)	P/A	Method 21 Inspection
POC	40 CFR 60.482-4(a)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm	None	P/E	Method 21 Inspection
POC	40 CFR 60.482-4(b)(1)	Y		Pressure relief valve (gas/vapor) not vented to abatement < 500 ppm after a pressure release event	40 CFR 60.482-4(b)(2)	P/E (5 days)	Method 21 Inspection
POC	40 CFR 60.482-7(b) 60.482-7(d)(1)	Y		Valve leak < 10,000 ppm or 1 <sup>st</sup> repair attempt 5 day, repaired 15 days	40 CFR 60.482-7(a)	P/M	Method 21 Inspection
POC	40 CFR 60.482-7(b)	Y		Valve leak < 10,000 ppm; 2 successive months	40 CFR 60.482-7(c)(1)	P/Q	Method 21 Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
POC	40 CFR 60.482-7(f)	Y		Valve designated “No detectable emissions” leak < 500 ppm	40 CFR 60.482-7 (f)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-7(h)	Y		Valve designated “Difficult to monitor (up to 3% of total valves)” leak < 500 ppm	40 CFR 60.482-7 (h)(3)	P/A	Method 21 Inspection
POC	40 CFR 60.482-8(b)	Y		Pumps and Valves (heavy liquid), Pressure Relief Devices (liquid), Flanges, Connectors leak < 10,000 ppm	40 CFR 60.482.8(a)	P/E (5 days after leak noted by visual, audible, or olfactory inspection)	Method 21 Inspection to confirm leak
POC	40 CFR 60.482-10 (g)	Y		Closed-vent systems leak ≤ 500 ppm or visible leak indication, or 1 <sup>st</sup> repair attempt 5 day, repaired 15 days, or turnaround list	40 CFR 60.482-10 (f)(1)(ii)	P/A	Visual Inspection (hard-pipe systems)
POC	40 CFR 60.483-2	Y		Individual valve that measures <10,000 ppm for 2 consecutive quarters may be monitored semiannually, if in a process unit with 2 consecutive quarters <2% valves leaking ≥10,000 ppm. <sup>c</sup>	40 CFR 60.483-2(b)(2) (footnote c)	P/SA (if criteria are met)	Method 21 Inspection
POC	40 CFR 60.483-2	Y		Individual valve that measures <10,000 ppm for 5 consecutive quarters may be monitored annually, if in a process unit with 5 consecutive quarters <2% valves leaking ≥10,000 ppm. <sup>c</sup>	40 CFR 60.483-2(b)(3) (footnote c)	P/A (if criteria are met)	Method 21 Inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – I Fugitives**  
**Applicable Limits and Compliance Monitoring Requirements**  
**FUGITIVE COMPONENTS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency	Monitoring Type
		Y		SOCMI NSPS Fugitives I/M Program	40 CFR 60.487(d) and 60.487(f)	P/SA	Report
<b>40 CFR 61; Subpart FF (Benzene Waste NESHAPS)</b>							
POC	40 CFR 61.343 (a)(1)(i)(A)	Y		Tanks fittings leak ≤ 500 ppm	40 CFR 61.343 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 63.345 (a)(1)(i)	Y		Container fittings leak ≤ 500 ppm	40 CFR 63.345 (a)(1)(i)	P/A	Method 21 Inspection
POC	40 CFR 61.347 (a)(1)(i)(A)	Y		O/W Separator fittings leak ≤ 500 ppm	40 CFR 61.347 (a)(1)(i)(A)	P/A	Method 21 Inspection
POC	40 CFR 61.349 (a)(1)(i)	Y		Closed-vent systems <500 ppm above background	40 CFR 61.349 (a)(1)(i)	P/A	Method 21 Inspection

### **Footnotes to Table VII-I**

<sup>a</sup> Valves are inspected pursuant to BAAQMD-approved Alternative Inspection Schedule that satisfies the requirements of BAAQMD Regulation 8-18-404. Valves that have not been found to be leaking for the five prior quarters are placed on the annual inspection schedule.

<sup>b</sup> Connectors are inspected pursuant to a BAAQMD-approved Connector Inspection Program that satisfies the requirements of BAAQMD Regulation 8-18-401.6. Under this program, 20% of all of the refinery's connectors are inspected each year.

<sup>c</sup> 40 CFR 60.483-2 (Subpart VV) and BAAQMD Regulation 11-7-313 alternative screening schedules for valves are analogous to the Valero Alternative Inspection Schedule (see footnote "a") with two exceptions: 40 CFR 60.483-2 uses a leak definition of 10,000 ppm VOC rather than 100 ppm TOC, and 40 CFR 60.483-2 requires that the percentage of valves leaking facility-wide (at 10,000 ppm) must have been less than 2% for the five-quarter time period. For process units covered by refinery MACT, 40 CFR 63.648(a)(2) allow the percentage leaking to be determined on a refinery-wide basis. This applies to all process units except NSPS process units except Dimersol, which is not subject to MACT. Finally, any valve subject to Subpart VV or to BAAQMD Regulation 11-7 must *individually* comply with BAAQMD Regulation 8-18-404 (5 quarters with no leaks at 100 ppm) in order to be allowed to be screened less frequently than quarterly. As a practical matter, Subpart VV and BAAQMD Regulation 11-7 are effectively less stringent than the Valero Alternative Inspection Schedule.

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-57 (TK-1701) – EXTERNAL FLOATING-ROOF TANK; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMH HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF Tanks</b>						



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-57 (TK-1701) – EXTERNAL FLOATING-ROOF TANK; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS</b>						
VOC	Condition # 8564 Part 1	Y		Tank shall not be heated while storing "light" crude oil.	Condition # 8564 Part 1	P/E	Record
Vapor Pressure	Condition # 8564 Part 2	Y		Maximum vapor pressure of material stored in TK 1701 shall not exceed 3.5 psi.	Cition # 8564 Part 2	P/E	Record

**Table VII – J2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-58 (TK-1702) – EXTERNAL FLOATING-ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-58 (TK-1702) – EXTERNAL FLOATING-ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 63 Subpart G – SOCMI HON</b> <b>LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J3**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706), S-86 (TK-1758)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMH HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J3**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-59 (TK-1703), S-60 (TK-1704), S-61 (TK-1705), S-62 (TK-1706), S-86 (TK-1758)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

**Table VII – J4**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-63 (TK-1711), S-66 (TK-1714), S-68 (TK-1716)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</b> <b>LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J4**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-63 (TK-1711), S-66 (TK-1714), S-68 (TK-1716)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 63 Subpart G – SOCMH HON</b> <b>LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J5**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-64 (TK-1712), S-73 (TK-1733), S-74 (TK-1734), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMH HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J5**

**Applicable Limits and Compliance Monitoring Requirements**  
**S-64 (TK-1712), S-73 (TK-1733), S-74 (TK-1734), S-75 (TK-1736), S-76 (TK-1737), S-77 (TK-1738), S-78 (TK-1739), S-79 (TK-1751), S-80 (TK-1752), S-82 (TK-1754)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

**Table VII – J6**

**Applicable Limits and Compliance Monitoring Requirements**  
**S-72 (TK-1720), S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J6**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-72 (TK-1720), S-83 (TK-1755), S-84 (TK-1756), S-92 (TK-1771)**  
**EXTERNAL FLOATING-ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 63 Subpart G – SOCMH HON</b> <b>LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries 40 CFR 63 Subpart G – SOCMH HON LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J7**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-97 (TK-1776) – EXTERNAL FLOATING-ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

**Table VII – J8**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-163 (TK-1732) – NSPS SUBPART K EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J8**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-163 (TK-1732) – NSPS SUBPART K EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 63 Subpart G – SOCMH HON</b> <b>LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120 (b)(10)	Each time emptied & degassed	visual inspection
HAP	63.646(a) 63.120 (b)(3)&(5)	Y		Primary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	5 yr intervals	measurement and visual inspection
HAP	63.646(a) 63.120 (b)(4)&(6)	Y		Secondary rim-seal standards; includes gap criteria	63.646(a) 63.120 (b)(1) & (2)	P/A	measurement and visual inspection

**Table VII – J9**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-207 (TK-1740) – NSPS SUBPART KB EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</b> <b>LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J9**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-207 (TK-1740) – NSPS SUBPART Kb EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC and NSPS Kb</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks</b> <b>LIMITS AND MONITORING FOR EXTERNAL FLOATING ROOF TANKS</b>						
VOC	63.640 (n)(1), 60.112b (a)(2)(ii)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8) 60.113b (b)(6)	Each time emptied & degassed	visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	5 yr intervals	measurement and visual inspection
VOC	63.640 (n)(1), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.640(n)(8) 60.113b (b)(1)-(b)(3)	P/A	measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J9**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-207 (TK-1740) – NSPS SUBPART Kb EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8) 60.116b(c)	Upon change of service	Record
VOC		Y		Seal inspection records for report in 60.115b(b)(2)	63.640(n)(8) 60.115b(b)(3)	For each gap measurement	Record
VOC		Y		Inspection report for non-compliant seals	63.640(n)(8) 60.115b(b)(4)	Within 30 days of seal inspection	Report
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS</b>						
NOx, CO, POC, SO2, PM10	BAAQMD Condition #BAAQMD Condition # 10797 Part 1	Y		The total release of emissions from the S-207 project for the delivery and storage of MTBE, which includes the cargo ships and tugs in District waters, shall not exceed in any rolling 365 consecutive day period the following limits: NOx 36.7 tons CO 3.7 tons POC 8.1 tons SO2 9.5 tons PM10 1.6 tons	BAAQMD Condition # 10797 Part 8	P/D	Records of MTBE deliveries including MTBE throughput and ship and barge data as specified in BAAQMD Condition ID# 10797-8.
POC	BAAQMD Condition # 10797 Part 2	Y		The total release of POC emissions from the S-207 MTBE project shall not exceed 140 pounds in any rolling 24 consecutive hour period.	BAAQMD Condition # 10797 Part 9	On the day of MTBE delivery and each day of MTBE transfer from the cargo carrier to S-207	Calculate total POC emissions from the S-207 project.  Summarize monthly.
POC	BAAQMD Condition # 10797 Part 9	Y		Report of daily total POC emissions from the S-207 project.	BAAQMD Condition # 10797 Part 9	P/Q within 10 days of close of quarter	Report
Material Stored	BAAQMD Condition # 10797 Part 4	Y		The S-207 External roof storage tank shall store MTBE and/or mogas only.	BAAQMD Condition # 10797 Part 7	P/D	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J9**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-207 (TK-1740) – NSPS SUBPART Kb EXTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Throughput	BAAQMD Condition # 10797 Part 5	Y		The total throughput of MTBE at S-207 shall not exceed 5,800,000 barrels in any rolling 365 consecutive day period.	BAAQMD Condition # 10797 Part 7	P/D	Record
Throughput	BAAQMD Condition # 10797 Part 6	Y		The total throughput of mogas at S-207 shall not exceed 16,936,400 barrels in any rolling 365 consecutive day period.	BAAQMD Condition # 10797 Part 7	P/D	Record

**Table VII – J10**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-112 (TK-1805) – INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1,	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J10**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-112 (TK-1805) – INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 63 Subpart G – SOCMH HON</b> <b>LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS</b>						
HAP	63.646(f)	Y		Deck fitting closure standards	63.646 (a) & (e) 63.120(a)(2)	Each time emptied & degassed, at least every 10 yr	visual inspection
HAP	63.646(a) 63.120(a)(7)	Y		Primary rim-seal standards; no holes or tears	63.646(a) 63.120(a)(2)	Each time emptied & degassed, at least every 10 yr	visual inspection
HAP	63.646(a) 63.120(a)(4)	Y		No gaps visible from the tank top	63.646(a) 63.120(a)(2)	P/A	visual inspection
HAP	63.646(a) 63.120(a)(4)	Y		No liquid on the floating roof or other obvious defects visible from the tank top	63.646(a) 63.120(a)(2)	P/A	visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J11**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-87 (TK-1759)**  
**INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL; MACT EXEMPT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J11**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-87 (TK-1759)**  
**INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL; MACT EXEMPT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	40 CFR 63 Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

**Table VII – J12**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-88 (TK-1760), S-89 (TK-1761), S-90 (TK-1762), S-91 (TK-1763)**  
**INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS; MACT EXEMPT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J12**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-88 (TK-1760), S-89 (TK-1761), S-90 (TK-1762), S-91 (TK-1763)**  
**INTERNAL FLOATING ROOF TANKS WITH SECONDARY SEALS; MACT EXEMPT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
None	40 CFR 63 Subpart CC NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

**Table VII – J13**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J13**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NESHAPS CC and NSPS Kb	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks</b> <b>LIMITS AND MONITORING FOR INTERNAL FLOATING ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J13**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.640 (n)(1), 60.112b (a)(1)	Y		Deck fitting closure standards; includes gasketed covers	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		Primary rim-seal standards; no holes or tears	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(1) & (4)	Y		Secondary rim-seal standards; no holes or tears	63.640(n)(8), 60.113b(a)(1) & (a)(4)	Prior to filling tank, each time emptied & degassed, and at least every 10 yr	visual inspection
VOC	63.640 (n)(1), 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.640(n)(8), 60.113b (a)(2)	P/A	visual inspection
VOC		Y		Record of liquid stored and true vapor pressure	63.640(n)(8), 60.116b(c)	Upon change of service	record
VOC		Y		Record of each initial, annual, and 10-year tank inspection	63.640(n)(8), 60.115b(a)(2)	For each tank inspection	record
VOC		Y		Report of non-compliant annual inspection for tanks with secondary seals	63.640(n)(8), 60.115b(a)(4)	Within 30 days of inspection	report
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS</b>						
Throughput	BAAQMD Condition # 9296 Part C1	Y		The total throughput shall not exceed 575,000 barrels of methanol/ethanol in any rolling 12 consecutive month period.	BAAQMD Condition # 9296 Part C6	P/M	Records of monthly and annual tank throughputs

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J13**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-210 (TK-1820) – NSPS SUBPART KB INTERNAL FLOATING ROOF TANK**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
POC	BAAQMD Condition # 9296 Part C2	Y		Total POC emissions including fugitive POC emissions shall not exceed 0.87 tons in any rolling 12 consecutive month period.	BAAQMD Condition # 9296 Part C6	P/M	Records of monthly and annual tank throughputs
					BAAQMD Regulations 8-18-301 8-18-302 8-18-304 8-18-305 8-18-306 8-18-307 8-18-308	As Required	Method 21 portable hydrocarbon detector
Storage	BAAQMD Condition # 9296 Part 5	Y		The S-210 internal floating roof tank shall only store methanol/ethanol unless written authorization is received from the APCO allowing a change.	BAAQMD Condition # 9296 Part 5	P/E	Records of material stored

**Table VII – J14**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J14**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-55 (TK-2801) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.						

**Table VII – J15**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-65 (TK-1713), S-69 (TK-1717), S-70 (TK-1718), S-71 (TK-1719)**  
**EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED-ROOF TANKS						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501	P/E	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J15**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-65 (TK-1713), S-69 (TK-1717), S-70 (TK-1718), S-71 (TK-1719)**  
**EXEMPT FIXED ROOF TANKS WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.						

**Table VII – J16**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-124 (TK-1735) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J16**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-124 (TK-1735) – FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.						

**Table VII – J17**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-133 (TK-2712)**  
**FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement.	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(d)(5). Emission point routed to fuel gas system.						



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J17**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-133 (TK-2712)**

**FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Permit	PERMIT CONDITIONS						
	BAAQMD Condition # 7559 Part 1	Y		VOC emissions emitted from the spent acid tank (S-133) shall be routed to the flare gas recovery header (S-9).	None	N	None

**Table VII – J18**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-227 (TK-1741)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	records
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J18**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-227 (TK-1741)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH VAPOR RECOVERY TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
VOC	BAAQMD Regulation 8-5-306	Y		Tank control device standards; includes 95% efficiency requirement	None	P/A	No monitoring – vented to fuel gas recovery system
<b>NSPS Kb</b>	<b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels</b>						
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	None	P/A if criteria met	Method 21
VOC	40 CFR 60 NSPS Kb 60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>Exempt per 63.640(d)(5). Emission point routed to fuel gas system.</b>						

**Table VII – J19**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-93 (TK-1772), S-94 (TK-1773), S-95 (TK-1774), S-96 (TK-1775), S-99 (TK-1778),**  
**S-100 (TK-1779), S-106 (TK-1797), S-107 (TK-1798), S-109 (TK-1802), S-111 (TK-**  
**1804), S-116 (TK-1809), S-118 (TK-1811), S-119 (TK-1812), S-140 (TK-1204), S-145**  
**(TK-1201)**

### EXEMPT FIXED ROOF TANKS

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</b> <b>LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J19**

**Applicable Limits and Compliance Monitoring Requirements**

**S-93 (TK-1772), S-94 (TK-1773), S-95 (TK-1774), S-96 (TK-1775), S-99 (TK-1778), S-100 (TK-1779), S-106 (TK-1797), S-107 (TK-1798), S-109 (TK-1802), S-111 (TK-1804), S-116 (TK-1809), S-118 (TK-1811), S-119 (TK-1812), S-140 (TK-1204), S-145 (TK-1201)**

**EXEMPT FIXED ROOF TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
NESHAPS CC	40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1) (iv)	P/E	Record

**Table VII – J20**

**Applicable Limits and Compliance Monitoring Requirements**

**S-98 (TK-1777)**

**EXEMPT FIXED ROOF TANK; MACT EXEMPT**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.640(e). Not associated with a process unit.						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J21**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-108 (TK-1801)**  
**FIXED ROOF TANK WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY</b>						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record
<b>BAAQMD Permit</b>	<b>Permit Condition</b>						
VOC	BAAQMD Condition # 76003 Part 1	Y		Organic emissions from filling the tank are to be under 4 lb/hr	BAAQMD Condition # 76003 Part 1	Each time tank is filled	Limit the rate of filling the tank

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J22**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-110 (TK-1803)**  
**FIXED ROOF TANK WITH SUBMERGED FILL & P/V**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY</b>						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1) (iv)	P/E	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J23**

### Applicable Limits and Compliance Monitoring Requirements

**S-113 (TK-1806), S-114 (TK-1807), S-115 (TK-1808), S-117 (TK-1810), S-120 (TK-1813), S-122 (TK-1814), S-123 (TK-1794), S-171, S-180, S-234, S-235**

**FIXED ROOF TANKS <10 KGALS WITH SUBMERGED FILL & P/V**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.</b>						

**Table VII – J24**

### Applicable Limits and Compliance Monitoring Requirements

**S-143 (TK-1034)**

**FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J24**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-143 (TK-1034)**

**FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	40 CFR 63 Subpart CC) – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.						
BAAQMD Permit	PERMIT CONDITIONS						
Throughput	BAAQMD Condition # 13045 Part 1	Y		Throughput shall not exceed 15,000 gallons during any rolling 12 consecutive month period	BAAQMD Condition # 13045 Part 2	P/M	Record

**Table VII – J25**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-170 (TK-2317)**

**FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J25**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-170 (TK-2317)**

**FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.						
BAAQMD Permit	PERMIT CONDITIONS						
VOC	BAAQMD Condition # 896 Part 2	Y		Emissions of NMHC shall not exceed 1 lb/day averaged over 30 day period (896-2). Maintain records of all tank loadings including date, type of material loaded (896-3).	BAAQMD Condition # 896 Part 3	P/M	Record



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J26**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-239 (TK-1918)**  
**FIXED ROOF TANKS <10 KGALS WITH SUBMERGED FILL & P/V;**  
**WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.</b>						
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS</b>						
Throughput	BAAQMD Condition # 18422 Part 1	Y		Total liquid throughput shall not exceed 102,000 gallons during any consecutive 12-month period (Cumulative Increase)	BAAQMD Condition # 18422 Part 3	P/M	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J27**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-158 (TK-2902)**

**FIXED ROOF TANK <10 KGALS WITH SUBMERGED FILL & P/V; WITH PERMIT CONDITIONS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> <b>Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.</b>						
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS</b>						
Throughput	BAAQMD Condition # 9584 Part 1	Y		Throughput shall not exceed 10 kgals in any rolling 12 consecutive months	BAAQMD Condition # 9584 Part 2	P/M	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J28**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-1013 (D-2720) – STORAGE DRUM WITH 10 KGAL CAPACITY**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FIXED-ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.</b>						

**Table VII – J29**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-121 (D-807), S-142 (TK-103), S-144 (TK-5013), S-185**  
**EXEMPT FIXED ROOF TANKS <10 KGALS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS</b>						
Vapor Pressure	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia.	BAAQMD Regulation 8-5-501	P/E	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J29**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-121 (D-807), S-142 (TK-103), S-144 (TK-5013), S-185**  
**EXEMPT FIXED ROOF TANKS <10 KGALS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries Exempt per 63.641 storage vessel definition. Size less than or equal to 10,000 gallons.						

**Table VII – J30**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-230 (TK-4460) – EXEMPT FIXED ROOF TANK WITH NSPS SUBPART Kb RECORDKEEPING**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR EXEMPT FIXED ROOF TANKS</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	records
<b>NSPS Kb</b>	<b>40 CFR 60 Subpart Kb - NSPS for VOL Storage Vessels at Petroleum Refineries RECORDKEEPING ONLY</b>						
Vapor pressure	40 CFR 60 NSPS Kb 60.110b(c)	Y		True vapor pressure less than 3.5 kPa.	40 CFR 60 NSPS Kb 60.116b(b)	P/E	Record
<b>NESHAPS CC</b>	<b>40 CFR 63 Subpart CC - NESHAPS for Petroleum Refineries RECORDKEEPING ONLY</b>						
HAP	63.641	Y		Retain weight percent total organic HAP in stored liquid for Group 2 determination.	63.654(i)(1)(iv)	P/E	Record

**Table VII – J31.1**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-132 (TK-2711), S-134 (TK-2713) - EXEMPT FIXED ROOF CAUSTIC TANKS**

## VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
BAAQMD Regulation 8-5	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Regulation 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD Regulation 8-5-501.1	periodic initially and upon change of service	Records
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501.1	<u>periodic</u> initially and upon change of service	Records

**Table VII – J31.2**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-231 (TK-1943), S-236 (TK-1901 NEW) – EXEMPT NON-ORGANIC TANKS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
Opacity	BAAQMD Regulation 6-301	Y		Ringelmann No. 1 for no more than 3 minutes/hour	None	N	N/A
FP	BAAQMD Regulation 6-310	Y		0.15 grain/dscf	None	N	N/A

**Table VII – J32**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-85 (TK-1757)**  
**EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J32**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-85 (TK-1757)**  
**EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NONE</b>	<b>National Emission Standard for Petroleum Refineries (Refinery MACT)</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J32**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-85 (TK-1757)**  
**EXTERNAL FLOATING ROOF TANK - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>NESHAPS FF and NSPS Kb</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources</b> <b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks</b>						
VOC	63.647(a), 61.351(a)2, 60.112b(a)(2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)2, 60.113b(b)(6)	Each time emptied & degassed	visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351(a)2, 60.113b(b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)2, 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

**Table VII – J33**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-104 (TK-1795), S-81 (TK-1753), S-67 (TK-1715)**  
**EXTERNAL FLOATING ROOF TANKS - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</b> <b>LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-401.2	P/SA	Measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J33**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-104 (TK-1795), S-81 (TK-1753), S-67 (TK-1715)**  
**EXTERNAL FLOATING ROOF TANKS - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-401.1	P/SA and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	reports
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	<b>National Emission Standard for Petroleum Refineries (Refinery MACT)</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
NESHAPS FF and NSPS Kb	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources</b> <b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks</b>						
VOC	63.647(a), 61.351 (a)(2), 60.112b(a) (2)(ii)	Y		Deck fitting closure standards	63.647(a), 61.351(a)(2), 60.113b(b)(6)	Each time emptied & degassed	visual inspection



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J33**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-104 (TK-1795), S-81 (TK-1753), S-67 (TK-1715)**  
**EXTERNAL FLOATING ROOF TANKS - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a), 61.351 (a)(2), 60.113b (b)(4)(i)	Y		Primary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3)	5 yr intervals	measurement and visual inspection
VOC	63.647(a), 61.351 (a)(2), 60.113b (b)(4)(ii)	Y		Secondary rim-seal standards; includes gap criteria	63.647(a), 61.351(a)(2), 60.113b(b)(1), (2) & (3)	P/A	measurement and visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J34**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-101 (TK-1791), S-105 (TK-1796)**

### INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-322	Y		Secondary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1, 8-5-322.1	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J34**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-101 (TK-1791), S-105 (TK-1796)**

### INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	periodic after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
NONE	<b>National Emission Standard for Petroleum Refineries (Refinery MACT)</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
NESHAPS FF and NSPS Kb	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources</b> <b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks</b>						
VOC	63.647(a), 61.351(a)(1), 60.112b(a)(iv)-(ix), 60.113b(a)(1), 60.113b(a)(4)	Y		Floating roof and deck fitting closure standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Y		Secondary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J34**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-101 (TK-1791), S-105 (TK-1796)**

**INTERNAL FLOATING ROOF TANKS WITH DOUBLE SEALS – BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a), 61.351(a)(1) , 60.113b (a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J35**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-103 (TK-1793)**

**INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL – BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR FLOATING-ROOF TANKS</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD 8-5-320	Y		Floating roof fitting closure standards; includes gasketed covers	BAAQMD 8-5-402.3	P/SA	Measurement and visual inspection
VOC	BAAQMD 8-5-321	Y		Primary rim-seal standards; includes gap criteria	BAAQMD 8-5-402.1	<u>periodic</u> 10 year intervals and every time a seal is replaced	Seal inspection
VOC	BAAQMD 8-5-305, 8-5-321.1,	Y		Visual inspection of outer most seal	BAAQMD 8-5-402.2	P/SA	Visual inspection
VOC	BAAQMD 8-5-328.1.2	Y		Concentration of < 10,000 ppm as methane after degassing	BAAQMD 8-5-503	<u>periodic</u> each time emptied & degassed	Portable hydrocarbon detector
VOC		Y		Certification reports on tank inspections and source tests	BAAQMD 8-5-404 8-5-405	<u>periodic</u> after each tank inspection and source test	Certification report
VOC		Y		Records of tank seal replacement	BAAQMD 8-5-501.2	<u>periodic</u> after each tank seal inspection	Records
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J35**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-103 (TK-1793)**

### INTERNAL FLOATING ROOF TANK WITHOUT SECONDARY SEAL – BENZENE WASTEWATER

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
NONE	National Emission Standard for Petroleum Refineries (Refinery MACT) Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).						
NESHAPS FF and NSPS Kb	40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Sources 40 CFR 60 Subpart Kb – NSPS for VOL Storage Tanks						
VOC	63.647(a), 61.351(a)(1) , 60.112b(a)(iv)-(ix), 60.113b(a)(1), 60.113b(a)(4)	Y		Floating roof and deck fitting closure standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1) , 60.113b(a)(1), 60.113b(a)(4)	Y		Primary rim-seal standards	63.647(a), 61.351(a)(1), 60.113b(a)(1), 60.113b(a)(4)	Prior to filling tank, each time tank emptied & degassed, and at least every 10 years	visual inspection
VOC	63.647(a), 61.351(a)(1) , 60.113b(a)(2)	Y		Internal visual inspection from viewports of fixed roof	63.647(a), 61.351(a)(1), 60.113b(a)(2)	P/A	visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J36**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-131 (D-2069)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	Records
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC –for Petroleum Refineries</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; CARBON CANISTERS</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J36**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-131 (D-2069)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards ( $< 500$ ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR CARBON CANISTERS</b>						
VOC	BAAQMD Condition # 11888 Part 10	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition # 's 11888 Part 11 and 11888 Part 16	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11888 Part 12	P/M	Record
VOC	BAAQMD Condition # 11888 Part 13	Y		Tank PRV leak tightness standard ( $< 500$ ppmw)	BAAQMD Condition # 11888 Part 13	P/Q	Method 21
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; THERMAL OXIDIZER</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards ( $< 500$ ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards ( $< 500$ ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J36**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-131 (D-2069)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR THERMAL OXIDIZER</b>						
VOC	BAAQMD Condition # 11888 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11888 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11888 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11888 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11888 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11888 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer	BAAQMD Condition # 11888, Parts 5 and 6	C	Temperature monitoring device

**Table VII – J37**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-150 (TK-2051)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J37**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-150 (TK-2051)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	periodic initially and upon change of service	Records
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC –for Petroleum Refineries</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; CARBON CANISTERS</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J37**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-150 (TK-2051)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR CARBON CANISTERS</b>						
VOC	BAAQMD Condition # 11879 Part 10	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition # 11879, Parts 11 and 16	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11879 Part 12	P/M	Record
VOC	BAAQMD Condition # 11879 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11879 P-art 13	P/Q	Method 21
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; THERMAL OXIDIZER</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J37**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-150 (TK-2051)**  
**FIXED ROOF TANK WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER SLUDGE**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR THERMAL OXIDIZER</b>						
NOx	BAAQMD Condition # 11879 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 8	P/A	Source test
CO	BAAQMD Condition # 11879 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11879 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11879 Part 3	Y		VOC destruction efficiency of 98.5 weight%.	BAAQMD Condition # 11879 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11879 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer	BAAQMD Condition #'s 11879, Parts 5 and 6	C	Temperature monitoring device

**Table VII – J38**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-193 (TK2027), S-196 (TK-2077)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL**  
**DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS</b> <b>LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J38**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-193 (TK2027), S-196 (TK-2077)**

**NSPS SUBPART Kb FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL  
DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NSPS Kb</b>	<b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	specified parameter (VOC mass emissions)
<b>NONE</b>	<b>40 CFR 63 Subpart CC –for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J38**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-193 (TK2027), S-196 (TK-2077)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL**  
**DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.343(a)(1) (i)(A)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(A)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Condition # 11880 Part 2	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition #'s 11880, Parts 3 and 7	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11880 Part 4	P/M	Record
VOC	BAAQMD Condition # 11880 Part 5	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21

**Table VII – J39**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-199 (D-2055), S-200 (D-2056)**  
**STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER**

## VII. Applicable Limits and Compliance Monitoring Requirements

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	Records
VOC	BAAQMD Regulation 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of MAWP of tank, or at least 0.5 psig	BAAQMD Regulation 8-5-403	P/SA	Visual inspection
VOC	BAAQMD Regulation 8-5-303.2	Y		Pressure vacuum valve gas tight: < 500 ppm (as methane) above background	BAAQMD Regulation 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
<b>NONE</b>	<b>40 CFR 63 Subpart CC –for Petroleum Refineries Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Operations LIMITS AND MONITORING FOR CVS &amp; CARBON CANISTERS</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR CARBON CANISTERS</b>						

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J39**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-199 (D-2055), S-200 (D-2056)**  
**STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition # 11882 Part 10	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition #'s 11882, Parts 11 and 16	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11882 Part 12	P/M	Record
VOC	BAAQMD Condition # 11882 Part 13	Y		Tank PRV leak tightness standard (< 500 ppmw)	BAAQMD Condition # 11882 Part 13	P/Q	Method 21
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF - NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; THERMAL OXIDIZER</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards (< 500 ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a)(2) (i)(A)	Y		Control device standards; includes 95 weight.% VOC efficiency requirement	63.647(a) 61.354(c)(1)	C	Temperature monitoring device
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR THERMAL OXIDIZER</b>						
VOC	BAAQMD Condition # 11882 Part 1	Y		NOx limit of 25 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 8	P/A	Source test



## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J39**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-199 (D-2055), S-200 (D-2056)**  
**STORAGE DRUMS WITH CLOSED VENT SYSTEM & TWO CONTROL DEVICES –**  
**BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition # 11882 Part 2	Y		CO limit of 50 ppmvd corrected to 3% O2	BAAQMD Condition # 11882 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11882 Part 3	Y		VOC destruction efficiency of 98.5 weight %.	BAAQMD Condition # 11882 Part 8	P/A	Source test
VOC	BAAQMD Condition # 11882 Part 4	Y		1400 F minimum outlet temperature of thermal oxidizer	BAAQMD Condition #'s 11882, Parts 5 and 6	C	Temperature monitoring device

**Table VII – J40**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-205 (TK-2026), S-206 (TK-2076)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL**  
**DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J40**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-205 (TK-2026), S-206 (TK-2076)**

**NSPS SUBPART Kb FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL  
DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	BAAQMD Regulation 8-5-603.1	P/A	Source Test
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>NSPS Kb</b>	<b>40 CFR 60 Subpart Kb – NSPS for VOL Storage Vessels</b> <b>LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	60.112b (a)(3)(i)	Y		Closed vent system leak tightness standards (< 500 ppmw)	60.112b (a)(3)(i)	P/A if criteria met	Method 21
VOC	60.112b (a)(3)(ii)	Y		Control device standards; includes 95% efficiency requirement	60.113b(c)(2)	as approved (continuous)	specified parameter (VOC mass emissions)
<b>NONE</b>	<b>40 CFR 63 Subpart CC –for Petroleum Refineries</b> <b>Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition.</b> <b>Subject to NESHAPS FF as a wastewater source per 63.647(a).</b>						
<b>NESHAPS FF</b>	<b>40 CFR 61 Subpart FF – NESHAPS for Benzene Waste Operations</b> <b>LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank cover and openings leak tightness standards (< 500 ppmw)	63.647(a) 61.343(a)(1) (i)(B)	P/A	Method 21
VOC	63.647(a) 61.343(a)(1) (i)(B)	Y		Tank openings maintained in closed and sealed position	63.647(a) 61.343(c)	P/Q	Visual inspection

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J40**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-205 (TK-2026), S-206 (TK-2076)**  
**NSPS SUBPART KB FIXED ROOF TANK WITH CLOSED VENT SYSTEM & CARBON CONTROL**  
**DEVICE - BENZENE WASTEWATER**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	63.647(a) 61.349(a) (1)(i)	Y		CVS leak tightness standards ( $< 500$ ppmw)	63.647(a) 61.349(a)(1)(i)	P/A	Method 21
VOC	63.647(a) 61.349(a) (1)(ii)(B)	Y		CVS with bypass line car-seal closed	63.647(a) 61.354(f)(1)	P/M	Visual inspection
VOC	63.647(a) 61.349(f)	Y		CVS and control device evidence of visual defects	63.647(a) 61.349(f)	P/Q	Visual inspection
VOC	63.647(a) 61.349(a) (2)(ii)	Y		Control device standards; includes 95% VOC efficiency requirement	63.647(a) 61.354(d)	P/D	VOC analyzer
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Condition # 11880 Part 2	Y		Non-methane hydrocarbon (NMHC) mass emissions limit	BAAQMD Condition #'s 11880, Parts 3 and 7	C	Flow meter and VOC analyzer
VOC		Y		Record of NMHC emissions and carbon changeouts	BAAQMD Condition # 11880 Part 4	P/M	Record
VOC	BAAQMD Condition # 11880 Part 5	Y		Tank PRV leak tightness standard ( $< 500$ ppmw)	BAAQMD Condition # 11880 Part 5	P/Q	Method 21

**Table VII – J41**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-208 (D-920)**  
**COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
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## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J41**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-208 (D-920)**  
**COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
<b>BAAQMD Regulation 8-5</b>	<b>Organic Compounds - STORAGE OF ORGANIC LIQUIDS LIMITS AND MONITORING FOR CVS &amp; CONTROL DEVICES</b>						
VOC	BAAQMD Regulation 8-5-117	Y		True vapor pressure not greater than 0.5 psia	BAAQMD Regulation 8-5-501	P/E	Record
VOC	BAAQMD 8-5-301	Y		Record of liquids stored and true vapor pressure	BAAQMD 8-5-501.1	<u>periodic</u> initially and upon change of service	records
VOC	BAAQMD 8-5-303.1	Y		Pressure vacuum valve set pressure within 10% of maximum allowable working pressure of the tank, or at least 0.5 psig	BAAQMD 8-5-403	P/SA	visual inspection
VOC	BAAQMD 8-5-303.2	Y		Pressure vacuum valve must be gas-tight: < 500 ppm (as methane) above background	BAAQMD 8-5-403 8-5-503 8-5-605	P/SA	Method 21 portable hydrocarbon detector
VOC	BAAQMD Regulation 8-5-306	Y		Control device standards; includes 95% efficiency requirement	None	N	No monitoring – vented to fuel gas recovery system
VOC	BAAQMD Regulation 8-5-328.1.2	Y		Organic concentration in tank < 10,000 ppm as methane after degassing	BAAQMD Regulation 8-5-503	P/E	Portable hydrocarbon detector
VOC		Y		Determination of applicability	BAAQMD 8-5-604	P/E	look-up table or sample analysis
<b>BAAQMD Permit</b>	<b>PERMIT CONDITIONS FOR SLUDGE DRUM</b>						
VOC	BAAQMD Condition # 8771 Part 2	Y		Valve and flange fugitive emission leak standard of 500 ppm at 1 cm	BAAQMD Condition # 8771 Part 1	Per BAAQMD Regulation 8-18	Method 21

## VII. Applicable Limits and Compliance Monitoring Requirements

**Table VII – J41**  
**Applicable Limits and Compliance Monitoring Requirements**  
**S-208 (D-920)**  
**COKER SLUDGE DRUM WITH VAPOR RECOVERY ROUTED TO FUEL GAS**

Type of Limit	Citation of Limit	FE Y/N	Future Effective Date	Limit	Monitoring Requirement Citation	Monitoring Frequency (P/C/N)	Monitoring Type
VOC	BAAQMD Condition # 8771 Part 4	Y		Throughput limit for 12 consecutive month period	BAAQMD Condition # 8771 Part 5	P/M	Record
NONE	<b>40 CFR 63 Subpart CC – NESHAPS for Petroleum Refineries</b> Wastewater source exempt from storage vessel provisions per 63.641 storage vessel definition. Exempt from NESHAPS per 63.640(d)(5). Emission point routed to fuel gas system.						
NONE	<b>40 CFR 61 Subpart FF – NESHAPS, Benzene Wastewater Exempt from NESHAPS per 61.340(d).</b> Emission point routed to fuel gas system.						

## VIII. TEST METHODS

The test methods associated with the emission limit of a District regulation are generally referenced in Section 600 et seq. of the regulation. The following table indicates only the test methods associated with the emission limits referenced in Section VII, Applicable Emission Limits & Compliance Monitoring Requirements, of this permit.

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Regulation 1-522	Continuous Emission Monitoring	Manual of Procedures, Volume V
BAAQMD Regulation 1-605	Laboratory, Source Test and Air Monitoring Procedures	Manual of Procedures
BAAQMD Regulation 6-301	Ringelmann No. 1 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-302	Opacity Limit	Manual of Procedures, Volume V, Continuous Emission Monitoring
BAAQMD Regulation 6-303	Ringelmann No. 2 Limitation	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-304	Tube Cleaning	Manual of Procedures, Volume I, Evaluation of Visible Emissions
BAAQMD Regulation 6-310	Particulate Weight Limitation	Manual of Procedures, Volume IV, ST-15, Particulate Sampling
BAAQMD Regulation 6-311	General Operations	Manual of Procedures, Volume IV, ST-15, Particulates Sampling
BAAQMD Regulation 6-330	Sulfur Recovery Units	Manual of Procedures, Volume IV, ST-20, Sulfur Dioxide, Sulfur Trioxide and Sulfuric Acid Mist

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Regulation 8-2-301	VOC Emission Limit for Miscellaneous Operations	Manual of Procedures, Volume, IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA method 25 or 25A
BAAQMD Regulation 8-5-117	Low Vapor Pressure Exemption for Tanks	Manual of Procedures, Volume III, Lab Method 28
BAAQMD Regulation 8-5-301 8-5-501.1	True Vapor Pressure	Manual of Procedures, Volume III, Lab Method 28, Determination of Vapor Pressure of Organic Liquids from Storage Tanks, if organic compound is not listed in Table 1
BAAQMD Regulation 8-5-303.2 8-5-306, 8-5-307	Organic compound leak concentration	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks) – Portable hydrocarbon detector
BAAQMD Regulation 8-5-306	Tank Emission Control System Requirements, 95% Abatement Efficiency	Manual of Procedures, Volume IV, ST 4, Bulk Gasoline Loading Terminals
BAAQMD Regulation 8-5-320	Floating Roof Tank (internal and external) tank fitting gap measurement	Physical measurements as described in BAAQMD 8-5-320 when required in BAAQMD 8-5-401.2 (external floating roof tanks) or 8-5-402.3 (internal floating roof tanks)..
BAAQMD Regulation 8-5-321	Floating Roof Tank (internal and external) primary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-321 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
BAAQMD Regulation 8-5-322	Floating Roof Tank (internal and external) secondary rim seal gap measurement	Physical measurements as described in BAAQMD 8-5-322 when required in BAAQMD 8-5-401.1 (external floating roof tanks) or 8-5-402.1 (internal floating roof tanks).
BAAQMD Regulation 8-5-328.1.2	Tank Degassing Emission Control System, 90% Abatement Efficiency Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling
BAAQMD Regulation 8-5-328.1.2	Organic concentration in tank < 10,000 ppm as methane after degassing	EPA Method 21 [40 CFR 60, Appendix A], Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-7-301	Phase I Vapor Recovery Efficiency Requirements	Manual of Procedures, Volume IV, ST-36, Gasoline Dispensing Facility Phase I Volumetric Efficiency, or as prescribed by CARB Test Procedure TP-201.1

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
BAAQMD Regulation 8-7-301.6 8-7-302.5	Vapor Tightness Requirements	Manual of Procedures, Volume IV, ST-30, Static Pressure Integrity Test, Underground Storage Tanks as prescribed by CARB Test Procedure TP-201.3 (underground tanks)
BAAQMD Regulation 8-7-302.8	Phase II Liquid Removal Requirements	Manual of Procedures, Volume IV, ST-37, Gasoline Dispensing Facility Liquid Removal Devices
BAAQMD Regulation 8-7-302.12 8-7-313.3	Phase II Liquid Retain Requirements	CARB Test Procedure TP-201.2E or test procedure determined by CARB to be equivalent to TP-201.2E
BAAQMD Regulation 8-7-302.13 8-7-313.3	Phase II Spitting Requirements	CARB Test Procedure TP-201.2D or test procedure determined by CARB to be equivalent to TP-201.2D
BAAQMD Regulation 8-7-302.14	Phase II Vapor Balance System Dynamic Backpressure Requirements	Manual of Procedures, Volume IV, ST-27, GDF Dynamic Back Pressure Test, or as prescribed by CARB Test Procedure TP-201.4
BAAQMD Regulation 8-8-114, 8-8-501	Bypass Wastewater Requirements – Concentration of Dissolved Critical Organic Compounds	Manual of Procedures, Volume III, Lab Method 33
BAAQMD Regulation 8-8-302.3	Oil-Water Separator Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-8-303	Gauging and Sampling Device on Oil-Water Separator – vapor tight cover, seal, or lid	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks – Portable hydrocarbon detector
BAAQMD Regulation 8-8-307.2	Air Flotation Unit Vapor Recovery System Requirements	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling, or EPA Method 25 or 25A
BAAQMD Regulation 8-18	Fugitive Emission Monitoring Requirements	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 8-28-304.2	Pressure Relief Device Vapor Recovery Requirements after Repeat Releases	Manual of Procedures, Volume IV, ST-7, Non-Methane Organic Carbon Sampling or EPA Method 25 or 25A or Other methods to demonstrate control efficiency



## VIII. Test Methods

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 8-44-301	POC emission rate limitation and emission reduction efficiency ( $\geq 95\%$ ) during vessel loading	Manual of Procedures, Volume IV, ST-4, Bulk Gasoline Loading Terminals and ST-34, Bulk and Marine Loading Terminals, Vapor Recovery Units
BAAQMD Regulation 8-44-304.1 8-44-303	Leak free and gas tight requirements	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks
BAAQMD Regulation 9-1-310.1	Emission Limitations for Fluid Catalytic Cracking Units, Fluid Cokers, and Coke Calcining Unit	Manual of Procedures, Volume IV, ST-19A, Sulfur Dioxide, Continuous Sampling, or ST-19B, Total Sulfur Oxides Integrated Sample
BAAQMD Regulation 9-1-304	Fuel Burning (Liquid and Solid Fuels)	Manual of Procedures, Volume III, Lab Method 10, Determination of Sulfur in Fuel Oils.
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H <sub>2</sub> S Gas Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 25, Determination of H <sub>2</sub> S in Effluents or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	H <sub>2</sub> S Water Stream Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 32, Determination of H <sub>2</sub> S in Process Water Streams or equivalent method approved by APCO
BAAQMD Regulation 9-1-313.2 and SIP 9-1-313.2	NH <sub>3</sub> Abatement Efficiency	Manual of Procedures, Volume III, Lab Method 1, Determination of NH <sub>3</sub> in Effluents Collected in Acid Media Using the Specific Ion Electrode or equivalent method approved by APCO
BAAQMD Regulation 9-2-301 9-1-301	Limitations on H <sub>2</sub> S Ground Level Concentrations	Manual of Procedures, Volume VI, Section 1, Area Monitoring

## VIII. Test Methods

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-3-303	NO <sub>x</sub> Emission Limit for New or Modified Heat Transfer Operations	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling (nitrogen oxides) and ST-14, Oxygen, Continuous Sampling Note: ST-13B (nitrogen oxides) has been deleted from Volume IV of the MOP
BAAQMD Regulation 9-9-301.1	Emission Limits- Turbines Rated < 10 MW	Manual of Procedures, Volume IV, ST-13A, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 9-10-112	Limited Exemption, Low Fuel Usage	ASTM D1826-88 or ASTM D1945-81 in conjunction with ASTM D3588-89
BAAQMD Regulations 9-10-301	Refinery-Wide NO <sub>x</sub> Emission Limit	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling.  For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NO <sub>x</sub> Monitoring Policy.
BAAQMD Regulation 9-10-303	NO <sub>x</sub> Emission Limit for Facility (Federal Requirement), 0.20 lb per MMBTU of heat input, operating day average	For CEMs: Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling.  For Equivalent Verification System pursuant to 9-10-502: District approved methods per the BAAQMD Regulation 9, Rule 10 NO <sub>x</sub> Monitoring Policy.
BAAQMD Regulation 9-10-305	CO Emission Limit	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-6 (carbon monoxide) for CEM verification by source test
BAAQMD Regulation 9-10-303.1	NO <sub>x</sub> Emission Limit, CO Boiler (Federal Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling

## VIII. Test Methods

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
BAAQMD Regulation 9-10-304.1	NO <sub>x</sub> Emission Limit, CO Boiler (BAAQMD Requirement)	Manual of Procedures, Volume V and Manual of Procedures, Volume IV, ST-13A or B, Oxides of Nitrogen, Continuous Sampling and ST-14, Oxygen, Continuous Sampling
BAAQMD Regulation 11-10-302.2	Wooden Cooling Tower Circulating Water Hexavalent Chromium Concentration	American Public Health Method 312B or equivalent method as approved by the APCO
40 CFR 60 Subpart A 60.18(c)(1)	Visible emission monitoring	EPA Method 22: Visible Emissions
40 CFR 60 Subpart Db 60.44b(a) 60.44b(e)	NO <sub>x</sub> Emission Limit	40 CFR 60 Appendix B, Performance Specification 2
40 CFR 60 Subpart J 60.104(a)(1)	Fuel Gas H <sub>2</sub> S Concentration Limit	40 CFR 60, Appendix A, EPA Method 11, Determination of Hydrogen Sulfide Content of Fuel Gas Streams in Petroleum Refineries; and 40 CFR 60 Appendix B, Performance Specification 7, Specifications and Test Procedures for Hydrogen Sulfide Continuous Emission Monitoring Systems in Stationary Sources
40 CFR 60 Subpart Kb 60.112b (a)(3)(i)	NSPS Subpart Kb Closed Vent System – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart Kb 60.112b (a)(3)(ii)	NSPS Subpart Kb Closed Vent System Performance (95% efficiency)	40 CFR 60 Subpart Kb 60.113b(c) Testing and Procedures
40 CFR 60 Subpart Kb 60.113b (b)(4)(i)	NSPS Subpart Kb External Floating Roof Tank primary rim seal gap measurement	40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures
40 CFR 60 Subpart Kb 60.113b (b)(4)(ii)	NSPS Subpart Kb External Floating Roof Tank secondary rim seal gap measurement	40 CFR 61 Subpart Kb 60.113b(b)(1) through 60.113b(b)(3) Testing and Procedures

## VIII. Test Methods

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 60 Subpart GG 60.333 (b)	Fuel Sulfur Limit	ASTM D 1072-80 or 90, Standard Method for Total Sulfur in Fuel Gases ASTM D 3031-81, Standard Test Method for Total Sulfur in Natural Gas by Hydrogenation ASTM D 4084-82 or 94, Standard Method for Analysis of Hydrogen Sulfide in Gaseous Fuels (Lead Acetate Reaction Rate Method), ASTM D 3246-81, 92, or 96, Standard Method for Sulfur in Petroleum Gas by Oxidative Microcoulometry  See permit shield. The initial ASTM grab sample method specified by 60.335(d) as the monitoring requirement for this 60.333(b) fuel sulfur limit is superceded by ongoing TRS CEMs required by BAAQMD Permit Condition 19177, Part 35.
40 CFR 60 Subpart VV 60.482-2(b)(1)	Pumps in light liquid service – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-2(e)	Pumps in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-3(d)	Compressor barrier fluid system and seal failure detection sensor.	
40 CFR 60 Subpart VV 60.482-3(i)	Compressors designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-4(b)(1)	Pressure relief valve (gas/vapor) no detectable emissions after a pressure release event.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-7(b)	Valves in gas/vapor service and in light liquid service – leak detection.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-7(f)	Valves in gas/vapor service and in light liquid service and designated for “no detectable emission” – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR 60 Subpart VV 60.482-7(h)	Valves in gas/vapor service and in light liquid service and designated as difficult-to-monitor.	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.482-8(b)	Pumps and valves in heavy liquid service, pressure relief devices (liquid), and flanges and other connectors – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.483-2	Individual valves meeting criteria for skip period leak detection – leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 60 Subpart VV 60.485(d)	Determination % VOC content in process fluid	ASTM E260-73, 91, or 96 OR ASTM E168-67, 77, or 92 OR ASTM E169-63, 77, or 93
40 CFR 60 Subpart VV 60.485(e)	Demonstrate equipment is in light liquid service	ASTM D2879-83, 96, or 97 (Vapor pressure) OR Standard reference texts
40 CFR 61 Subpart FF 61.343 (a)(1)(i)(A)	Tank fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.345 (a)(1)(i)	Container fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.347 (a)(1)(i)(A)	Oil/Water Separator fittings leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.349 (a)(1)(i)	Closed-vent system leak detection	EPA Method 21 (40 CFR 60 Appendix A) Determination of Volatile Organic Compound Leaks) as specified in 40 CFR 60 Subpart VV 60.485(b)
40 CFR 61 Subpart FF 61.349(a)(2)(i)(A)	Enclosed Combustion Control Device Requirements, > 95% Reduction	40 CFR 61 Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions

## VIII. Test Methods

**Table VIII**  
**Test Methods**

Applicable Requirement	Description of Requirement	Acceptable Test Methods
40 CFR 61 Subpart FF 61.349(a)(2)(ii)	Carbon Adsorption Control Device Requirements, 95% VOC or 98% benzene reduction	40 CFR 61 Subpart FF 61.356 Recordkeeping Requirements
40 CFR 61 Subpart FF 61.342(e)(2)(i)	Uncontrolled Benzene Wastewater Limit	40 CFR 61 Subpart FF 61.355 Test Methods, Procedures, and Compliance Provisions
40 CFR 61 Subpart FF 61.355(c)(3)	Measure benzene concentration in waste streams	<p>From "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication No. SW-846:</p> <ul style="list-style-type: none"> <li>(1) Method 8020, Aromatic Volatile Organics,</li> <li>(2) Method 8021, Volatile Organic Compounds in Water by Purge and Trap Capillary Column Gas Chromatography with Photoionization and Electrolytic Conductivity Detectors in Series</li> <li>(3) Method 8240, Gas Chromatography/Mass Spectrometry for Volatile Organics</li> <li>(4) Method 8260, Gas Chromatography/Mass Spectrometry for Volatile Organics: Capillary Column Technique</li> </ul> <p>From 40 CFR Part 136, Appendix A, Test Procedures for Analysis of Organic Pollutants, for wastewaters for which these are approved EPA methods:</p> <ul style="list-style-type: none"> <li>(1) Method 602, Purgeable Aromatics,</li> <li>(2) Method 624, Purgeables</li> </ul>
40 CFR 61 Subpart FF 61.355(h)	Test equipment for compliance with no detectable emissions requirements of 40 CFR 61 Subpart FF	EPA Method 21 (40 CFR 60, Appendix A), Determination of Volatile Organic Compound Leaks)
40 CFR 61 Subpart FF 61.355(i)	Demonstrate compliance of a control device with a performance test	<p>40 CFR 60, Appendix A, Method 1 or 1A</p> <p>40 CFR 60, Appendix A, Method 2, 2A, 2C, or 2D</p> <p>40 CFR 60, Appendix A, Method 18</p>
40 CFR 63 Subpart CC 63.643(a)(2)	HAP Reduction Requirements for Fluid Cokers	40 CFR 63 Subpart CC 63.645 Test Methods and Procedures for Miscellaneous Process Vents

## VIII. Test Methods

**Table VIII**  
**Test Methods**

<b>Applicable Requirement</b>	<b>Description of Requirement</b>	<b>Acceptable Test Methods</b>
40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(3) 60.120(b)(5)	Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks primary rim-seal gap measurement	40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance
40 CFR 63 Subpart CC 63-646(a) 40 CFR 63 Subpart G 60.120(b)(4) 60.120(b)(6)	Refinery MACT (40 CFR 63 Subpart CC) Group 1 external floating roof tanks secondary rim-seal gap measurement	40 CFR 63 Subpart G 60.120(b)(1) and 60.120(b)(2) Procedures to Determine Compliance

## IX. PERMIT SHIELD

### A. Non-applicable Requirements

Pursuant to District Regulations 2-6-233 and 2-6-409.12, the federally enforceable regulations and/or standards cited in the following table[s] do not apply to the source or group of sources identified at the top of the table[s]. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the regulatory and/or statutory provisions cited, as long as the reasons listed below remain valid for the source or group of sources covered by this shield.

**Table IX A-1**  
**Permit Shield for Non-Applicable**  
**Benicia - Benicia Refinery**

Citation	Title or Description	Reason Not Applicable
BAAQMD  Regulation  9-1-302	General Sulfur Dioxide Emission Limitation	300 ppm sulfur dioxide stack limit not applicable with GLM system in place as required by BAAQMD Regulations 9-1-110 and 9-1-310.3.

**Table IX A-2**  
**Permit Shield for Non-Applicable**  
**S-1 - F-1301A**

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	Claus sulfur plant has not been modified after October 4, 1976

**Table IX A-3**  
**Permit Shield for Non-Applicable**  
**S-2 - F-1301B**

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	Claus sulfur plant has not been modified after October 4, 1976



## IX. Permit Shield

**Table IX A-4**  
**Permit Shield for Non-Applicable**  
**S-5 – FCCU R-702**

Citation	Title or Description	Reason Not Applicable
40 CFR 60 Subpart J	Standards of Performance for Petroleum Refineries	The fluid catalytic cracking unit has not been modified after January 17, 1984

### B. Subsumed Requirements

Pursuant to District Regulations 2-6-233.2 and 2-6-409.12, as of the date this permit is issued, the federally enforceable monitoring, recordkeeping, and reporting requirements cited in the following table for the source or group of sources identified at the top of the table[s] are subsumed by the monitoring, recordkeeping, and reporting for more stringent requirements or by a “hybrid” monitoring scheme. The District has determined that compliance with the requirements listed below and elsewhere in this permit will assure compliance with the substantive requirements of the subsumed monitoring requirements. Enforcement actions and litigation may not be initiated against the source or group of sources covered by this shield based on the subsumed monitoring requirements cited.

**Table IX B - 1**  
**Permit Shield for Subsumed Requirements**  
**REFINERY**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
BAAQMD Regulation 10-69	Subpart QQQ. Standards of Performance For Petroleum Refinery Wastewater Systems	40 CFR 63 Subpart CC	BAAQMD incorporation by reference of NSPS 40 CFR 60, Subpart QQQ is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
40 CFR 60 Subpart QQQ	Standards of Performance for VOC Emissions from Petroleum Refinery Wastewater Systems	40 CFR 63.640(o)(1)	For Valero, Subpart QQQ is superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 64.640(o)(1). Subpart CC cites 40 CFR 61 Subpart FF for Wastewater Standards.

## IX. Permit Shield

**Table IX B - 7**  
**Permit Shield for Subsumed Requirements**  
**S-21**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

**Table IX B - 8**  
**Permit Shield for Subsumed Requirements**  
**S-22**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

**Table IX B - 9**  
**Permit Shield for Subsumed Requirements**  
**S-220**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>

## IX. Permit Shield

**Table IX B - 9**  
**Permit Shield for Subsumed Requirements**  
**S-220**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD Regulation 9-3-303: 125 ppm NOx)	BAAQMD Regulation 9-10-502 & SIP 9-10-502.2	Monitoring (CEM for NOx will assure compliance with 9-9-303 limit. Span of CEM for 9-10-502 is too low to measure 125 ppm.)
BAAQMD Condition # 10574 Part 19	Continuous fuel flow monitor and recorder	BAAQMD Regulation 9-10-502.2 & SIP 9-10-502.2	Fuel flow meters for boilers, steam generators, and process heaters in petroleum refineries

**Table IX B – 10.1**  
**Permit Shield for Subsumed Requirements**  
**S-1030 AND S-1032**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)
40 CFR 60 Subpart GG 60.335(d)	Fuel Sulfur Content Compliance Methods (daily grab samples)	BAAQMD Condition 19177 Part 35	CEM for fuel gas H <sub>2</sub> S and TRS content

## IX. Permit Shield

**Table IX B – 10.2**  
**Permit Shield for Subsumed Requirements**  
**S-1031 AND 1033**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD Regulation 2-6-409.2.2	Periodic monitoring sufficient to yield reliable data (for BAAQMD 9-3-303: 125 ppm NOx)	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 9-3-303 limit. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 125 ppm.)
40 CFR 60 Subpart Db 60.44b(e)(2) and (3)	Requirement for 500 ppm span	BAAQMD Condition 19177 Part 38	Monitoring (CEM for NOx will assure compliance with 60.44b(e) and 60.44b(l)(1) limits. Span of CEM for BAAQMD Condition 19177-18(c) is too low to measure 500 ppm.)
40 CFR 60 Subpart Db 60.44b(i)	30-day rolling average for NOx limit	BAAQMD Regulation 10-4 NSPS Subpart Db Standards of Performance for Industrial-Commercial-Institutional Steam Generating Units	BAAQMD Regulation 10-4 replaces the 30-day rolling NOx average with a 24-hour maximum limit as the averaging period.

**Table IX B - 23**  
**Permit Shield for Subsumed Requirements**  
**CEMS**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
40 CFR 60.7(c)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR	CMS Reporting	BAAQMD	40 CFR 60 Subpart A CMS

## IX. Permit Shield

**Table IX B - 23**  
**Permit Shield for Subsumed Requirements**  
**CEMS**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
60.7(c)(1)		1-522.8	reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(2)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(3)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(c)(4)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)(1)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.
40 CFR 60.7(d)(2)	CMS Reporting	BAAQMD 1-522.8	40 CFR 60 Subpart A CMS reporting requirements are satisfied by BAAQMD 1-522.8 CEMS reporting requirements.

## IX. Permit Shield

**Table IX B - 24**  
**Permit Shield for Subsumed Requirements**  
**FUGITIVE COMPONENTS**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD 10-52	40 CFR 60 Subpart VV. Standards of Performance For Equipment Leaks of VOC In The Synthetic Organic Chemicals Manufacturing Industry.	40 CFR 63.640(p)	For Valero process unit fugitive components, with the exceptions of the Dimersol Unit and the vapor recovery compressors, Subpart VV is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
BAAQMD 10-59	40 CFR 60 Subpart GGG. Standards of Performance For Equipment Leaks Of VOC In Petroleum Refineries	40 CFR 63.640(p)	For Valero process unit fugitive components, with the exceptions of the Dimersol Unit and the vapor recovery compressors, Subpart GGG is superceded by Refinery MACT, 40 CFR 63 Subpart CC.
BAAQMD 11-7-307.4	Valves	BAAQMD 8-18-404	Allows relief from monthly monitoring if designated as unsafe-to monitor. BAAQMD Regulation 8-18-404 does not allow this relief.

**Table IX B – 25**  
**Permit Shield for Subsumed Requirements**  
**FUGITIVE COMPONENTS**

<b>Subsumed Requirement Citation</b>	<b>Title or Description</b>	<b>Streamlined Requirements</b>	<b>Title or Description</b>
BAAQMD 11-7-401	Inspection	BAAQMD 8-18-403	Weekly visual inspection of pumps is subsumed by 8-18-403 that requires daily inspection of pumps and has no NDE exemption.
40 CFR 60.482-7(g)	Standards	BAAQMD 8-18-404	Allows relief from monthly monitoring if designated as

## IX. Permit Shield

**Table IX B – 25**  
**Permit Shield for Subsumed Requirements**  
**FUGITIVE COMPONENTS**

Subsumed Requirement Citation	Title or Description	Streamlined Requirements	Title or Description
			unsafe-to-monitor. BAAQMD Regulation 8-18-404 does not allow this relief.
40 CFR 60.482-9(e)	Standards	BAAQMD 8-18-306	Allows delay of repair of valves beyond a process unit shutdown under specific circumstances. BAAQMD Regulation 8-18-306 does not allow this relief.
40 CFR 61 Subpart J	National Emission Standards for Equipment Leaks (Fugitive Emission Sources) of Benzene	40 CFR 63.640(p)	For Valero, Subpart J is superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 63.640(p). Subpart CC cites 40 CFR 60 Subpart VV and 40 CFR 63 Subpart H for Equipment Leak Standards.
40 CFR 61 Subpart V	National Emission Standards for Equipment Leaks (Fugitive Emission Sources)	40 CFR 63.640(p)	For Valero, Subpart V is superceded by Refinery MACT, 40 CFR 63 Subpart CC. Ref: 63.640(p). Subpart CC cites 40 CFR 60 Subpart VV and 40 CFR 63 Subpart H for Equipment Leak Standards.
40 CFR 61.350(a)	Standards: Delay of Repair	BAAQMD 8-18-306.1	Repair of technically impossible equipment may be delayed until next process unit shutdown. Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years, whichever is sooner.
40 CFR 61.350(b)	Standards: Delay of Repair	BAAQMD 8-18-306.1	Repair of technically impossible equipment may be delayed until next process unit shutdown. Subsumed by BAAQMD 8-18-306.1 which requires repair during the next turnaround or 5 years, whichever is sooner.

## **X. REVISION HISTORY**

Initial Major Facility Review Permit Issuance  
(Application 16423)

December 1, 2003

Administrative Amendment (no application)  
Deferral of effective date for monitoring  
conditions for BAAQMD Regulation  
9, Rule 10 in Section IV and VII tables  
for sources S16, S17, S18, and S19 and in  
BAAQMD Condition 20806.

May 27, 2004



## **XI. GLOSSARY**

**ACT**

Federal Clean Air Act

**APCO**

Air Pollution Control Officer

**API**

American Petroleum Institute

**ARB**

Air Resources Board

**BAAQMD**

Bay Area Air Quality Management District

**BACT**

Best Available Control Technology

**BARCT**

Best Available Retrofit Control Technology

**Basis**

The underlying authority that allows the District to impose requirements.

**C5**

An Organic chemical compound with five carbon atoms

**C6**

An Organic chemical compound with six carbon atoms

**CAA**

The federal Clean Air Act

**CAAQS**

California Ambient Air Quality Standards

**CAPCOA**

California Air Pollution Control Officers Association

**CEC**

California Energy Commission

**CEM**

## **XI. Glossary**

A "continuous emission monitor" is a monitoring device that provides a continuous direct measurement of some pollutant (e.g. NO<sub>x</sub> concentration) in an exhaust stream.

### **CEQA**

California Environmental Quality Act

### **CFP**

Clean Fuels Project

### **CFR**

The Code of Federal Regulations. 40 CFR contains the implementing regulations for federal environmental statutes such as the Clean Air Act. Parts 50-99 of 40 CFR contain the requirements for air pollution programs.

### **CO**

Carbon Monoxide

### **CO<sub>2</sub>**

Carbon Dioxide

### **COM**

Continuous Opacity Monitor

### **Cumulative Increase**

The sum of permitted emissions from each new or modified source since a specified date pursuant to BAAQMD Rule 2-1-403, Permit Conditions (as amended by the District Board on 7/17/91) and SIP Rule 2-1-403, Permit Conditions (as approved by EPA on 6/23/95). Used to determine whether threshold-based requirements are triggered.

### **DAF**

A "dissolved air flotation" unit is a process vessel where air bubbles injected at the bottom of the vessel are used to carry solids in the liquid into a froth on the liquid surface, where it is removed.

### **DNF**

Dissolved Nitrogen Flotation (See DAF)

### **dscf**

Dry Standard Cubic Feet

### **dscm**

Dry Standard Cubic Meter

### **DWT**

## **XI. Glossary**

Dead Weight Ton

## **XI. Glossary**

### **E 6, E 9, E 12**

Very large or very small number values are commonly expressed in a form called scientific notation, which consists of a decimal part multiplied by 10 raised to some power. For example, 4.53 E 6 equals  $(4.53) \times (10^6) = (4.53) \times (10 \times 10 \times 10 \times 10 \times 10 \times 10) = 4,530,000$ . Scientific notation is used to express large or small numbers without writing out long strings of zeros.

### **EFRT**

An "external floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an EFRT, the floating roof is not enclosed by a second, fixed tank roof, and is thus described as an "external" roof.

### **District**

The Bay Area Air Quality Management District

### **EPA**

The federal Environmental Protection Agency.

### **ETP**

Effluent Treatment Plant

### **Excluded**

Not subject to any District regulations.

### **FCC**

Fluid Catalytic Cracker

### **Federally Enforceable, FE**

All limitations and conditions which are enforceable by the Administrator of the EPA including those requirements developed pursuant to 40 CFR Part 51, subpart I (NSR), Part 52.21 (PSD), Part 60 (NSPS), Part 61 (NESHAPS), Part 63 (HAP), and Part 72 (Permits Regulation, Acid Rain), including limitations and conditions contained in operating permits issued under an EPA-approved program that has been incorporated into the SIP.

### **FP**

Filterable Particulate as measured by BAAQMD Method ST-15, Particulate.

### **FR**

Federal Register

### **FRT**

Floating Roof Tank (See EFRT and IFRT)

### **GDF**

## **XI. Glossary**

Gasoline Dispensing Facility

### **GLM**

Ground Level Monitor

### **grains**

1/7000 of a pound

### **Graphitic**

Made of graphite.

### **HAP**

Hazardous Air Pollutant. Any pollutant listed pursuant to Section 112(b) of the Act. Also refers to the program mandated by Title I, Section 112, of the Act and implemented by both 40 CFR Part 63.

### **H<sub>2</sub>S**

Hydrogen Sulfide

### **H<sub>2</sub>SO<sub>4</sub>**

Sulfuric Acid

### **Hg**

Mercury

### **HHV**

Higher Heating Value. The quantity of heat evolved as determined by a calorimeter where the combustion products are cooled to 60F and all water vapor is condensed to liquid.

### **IFRT**

An "internal floating roof tank" minimizes VOC emissions with a roof with floats on the surface of the liquid, thus preventing the formation of a VOC-rich vapor space above the liquid surface as the level in the tank drops. If such a vapor space were allowed to form, it would be expelled when the tank was re-filled. On an IFRT, the floating roof is enclosed by a second, fixed tank roof, and thus is described as an "internal" roof.

### **ISOM**

Isomerization plant

### **LHV**

Lower Heating Value. Similar to the higher heating value (see HHV) except that the water produced by the combustion is not condensed but retained as vapor at 60F.

### **Lighter**

"Lightering" is a transfer operation during which liquid is pumped from an ocean-going tanker vessel to a smaller vessel such as a barge. Like any liquid transfer operation, lightering of

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organic liquids produces organic vapor emissions.

### **Long ton**

2200 pounds

### **Major Facility**

A facility with potential emissions of: (1) at least 100 tons per year of regulated air pollutants, (2) at least 10 tons per year of any single hazardous air pollutant, and/or (3) at least 25 tons per year of any combination of hazardous air pollutants, or such lesser quantity of hazardous air pollutants as determined by the EPA administrator.

### **MDEA**

Methyl Diethanolamine

### **MFR**

Major Facility Review. The District's term for the federal operating permit program mandated by Title V of the Federal Clean Air Act and implemented by District Regulation 2, Rule 6.

### **Mo Gas**

Motor gasoline

### **MOP**

The District's Manual of Procedures.

### **MOSC**

Mobil Oil Sludge Conversion (licensed technology)

### **MSDS**

Material Safety Data Sheet

### **MTBE**

methyl tertiary-butyl ether

### **NA**

Not Applicable

### **NAAQS**

National Ambient Air Quality Standards

### **NESHAPS**

National Emission Standards for Hazardous Air Pollutants. See in 40 CFR Parts 61 and 63

### **NMHC**

Non-methane Hydrocarbons

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### **NMOC**

Non-methane Organic Compounds (Same as NMHC)

### **NO<sub>x</sub>**

Oxides of nitrogen.

### **NSPS**

Standards of Performance for New Stationary Sources. Federal standards for emissions from new stationary sources. Mandated by Title I, Section 111 of the Federal Clean Air Act, and implemented by 40 CFR Part 60 and District Regulation 10.

### **NSR**

New Source Review. A federal program for pre-construction review and permitting of new and modified sources of air pollutants for which the District is classified "non-attainment". Mandated by Title I of the Clean Air Act and implemented by 40 CFR Parts 51 and 52 as well as District Regulation 2, Rule 2. (Note: There are additional NSR requirements mandated by the California Clean Air Act.)

### **O<sub>2</sub>**

The chemical name for naturally-occurring oxygen gas.

### **Offset Requirement**

A New Source Review requirement to provide federally enforceable emission offsets at a specified ratio for the emissions from a new or modified source and any pre-existing cumulative increase minus any onsite contemporaneous emission reduction credits. Applies to emissions of POC, NO<sub>x</sub>, PM<sub>10</sub>, and SO<sub>2</sub>.

### **Phase II Acid Rain Facility**

A facility that generates electricity for sale through fossil-fuel combustion and is not exempted by 40 CFR 72 from Titles IV and V of the Clean Air Act.

### **POC**

Precursor Organic Compounds

### **PM**

Particulate Matter

### **PM<sub>10</sub>**

Particulate matter with aerodynamic equivalent diameter of less than or equal to 10 microns

### **PSD**

Prevention of Significant Deterioration. A federal program for permitting new and modified sources of those air pollutants for which the District is classified "attainment" of the National Air Ambient Quality Standards. Mandated by Title I of the Act and implemented by both 40 CFR Part 52 and District Regulation 2, Rule 2.

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### **Regulated Organic Liquid**

"Regulated organic liquids" are those liquids which require permits, or which are subject to some regulation, when processed at a liquid-handling operation. For example, for refinery marine terminals, regulated organic liquids are defined as "organic liquids" in Regulation 8, Rule 44.

### **RFG**

Refinery Fuel Gas

### **RMG**

Refinery Make Gas

### **SCR**

A "selective catalytic reduction" unit is an abatement device that reduces NO<sub>x</sub> concentrations in the exhaust stream of a combustion device. SCRs utilize a catalyst, which operates at a specific temperature range, and injected ammonia to promote the conversion of NO<sub>x</sub> compounds to nitrogen gas.

### **SIP**

State Implementation Plan. State and District programs and regulations approved by EPA and developed in order to attain the National Air Ambient Quality Standards. Mandated by Title I of the Act.

### **SO<sub>2</sub>**

Sulfur dioxide

### **SO<sub>2</sub> Bubble**

An SO<sub>2</sub> bubble is an overall cap on the SO<sub>2</sub> emissions from a defined group of sources, or from an entire facility. SO<sub>2</sub> bubbles are sometimes used at refineries because combustion sources are typically fired entirely or in part by "refinery fuel gas" (RFG), a waste gas product from refining operations. Thus, total SO<sub>2</sub> emissions may be conveniently quantified by monitoring the total amount of RFG that is consumed, and the concentration of H<sub>2</sub>S and other sulfur compounds in the RFG.

### **SO<sub>3</sub>**

Sulfur trioxide

### **THC**

Total Hydrocarbons (NMHC + Methane)

### **therm**

100,000 British Thermal Units

### **Title V**

Title V of the federal Clean Air Act. Requires a federally enforceable operating permit



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program for major and certain other facilities.

### **TOC**

Total Organic Compounds (NMOC + Methane, Same as THC)

### **TPH**

Total Petroleum Hydrocarbons

### **TRMP**

Toxic Risk Management Plan

### **TRS**

"Total reduced sulfur" is a measure of the amount of sulfur-containing compounds in a gas stream, typically a fuel gas stream, including, but not limited to, hydrogen sulfide. The TRS content of a fuel gas determines the concentration of SO<sub>2</sub> that will be present in the combusted fuel gas, since sulfur compounds are converted to SO<sub>2</sub> by the combustion process.

### **TSP**

Total Suspended Particulate

### **TVP**

True Vapor Pressure

### **VOC**

Volatile Organic Compounds

### **Units of Measure:**

bbl	=	barrel
bhp	=	brake-horsepower
btu	=	British Thermal Unit
C	=	degrees Celcius
d	=	day
F	=	degrees Farenheight
f <sup>3</sup>	=	cubic feet
g	=	grams
gal	=	gallon
gpm	=	gallons per minute
hp	=	horsepower
hr	=	hour
lb	=	pound
in	=	inches
k	=	thousand
M	=	thousand
m <sup>2</sup>	=	square meter

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max	=	maximum
Mg	=	mega-gram, one thousand grams
µg	=	micro-gram, one millionth of a gram
min	=	minute
MM	=	million
mm	=	millimeter
MMbtu	=	million btu
mm Hg	=	millimeters of Mercury (pressure)
MW	=	megawatts
mo	=	month
ppmv	=	parts per million, by volume
ppmw	=	parts per million, by weight
psia	=	pounds per square inch, absolute
psig	=	pounds per square inch, gauge
scf	=	standard cubic feet
scfm	=	standard cubic feet per minute
yr	=	year

### Symbols:

<	=	less than
>	=	greater than
≤	=	less than or equal to
≥	=	greater than or equal to

## **XII. APPLICABLE STATE IMPLEMENTATION PLAN**

The Bay Area Air Quality Management District's portion of the State Implementation Plan can be found at EPA Region 9's website. The address is:

<http://yosemite1.epa.gov/r9/r9sips.nsf/California?ReadForm&Start=1&Count=30&Expand=4.1>